

1974

Keep this report

654785

Buffalo River near Rush

Page

119

Buffalo River near Saint Joe 37

Water Resources Data

for

Arkansas

Part 1. Surface Water Records



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the Arkansas Geological
Commission and with other State and Federal agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DECEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

1974

JANUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

MARCH

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

1974

Water Resources Data for Arkansas

Part 1. Surface Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Prepared in cooperation with the Arkansas Geological
Commission and with other State and Federal agencies

Prepared in Cooperation with

Arkansas Geological Commission
Arkansas State Highway Department
Arkansas Division of Soil and Water Resources
Corps of Engineers, U.S. Army
Arkansas Department of Pollution Control and Ecology

Water resources records, 1974, for Arkansas are given in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Arkansas
Part 1. Surface Water Records
2. Water Resources Data for Arkansas
Part 2. Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
2301 Federal Office Building
Little Rock, Arkansas 72201

1975

CONTENTS

	Page
List of gaging stations, in downstream order, for which records are published.....	IV
Introduction.....	1
Cooperation.....	2
Definition of terms.....	2
Special networks and programs.....	4
Downstream order and station numbers.....	4
Explanation of surface-water data.....	5
Collection and computation of data.....	5
Accuracy of data.....	9
Publications.....	10
Other data available.....	11
Hydrologic conditions.....	11
Selected references.....	11
Gaging-station records.....	14
Discharge at partial-record stations and miscellaneous sites.....	118
Crest-stage partial-record stations.....	118
Measurements at miscellaneous sites.....	125
Index.....	128

ILLUSTRATIONS

Figure 1. Map of Arkansas showing location of gaging stations....	12
---	----

TABLES

Table 1. Factors for Converting English Units to International System (SI) Units.....	13
---	----

GAGING STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

	Page
<u>MISSISSIPPI RIVER BASIN</u>	
Mississippi River at Memphis, Tenn.....	14
<u>ST. FRANCIS RIVER BASIN</u>	
St. Francis River at St. Francis.....	16
St. Francis River at Lake City.....	18
Right Hand Chute of Little River at Rivervale.....	20
Tyronza River near Tyronza.....	21
St. Francis River at Parkin.....	23
St. Francis Bay at Riverfront.....	25
St. Francis River at latitude of Wittsburg.....	25
L'Anguille River near Colt.....	26
L'Anguille River at Palestine.....	27
Mississippi River at Helena.....	28
<u>WHITE RIVER BASIN</u>	
White River:	
West Fork White River at Greenland.....	30
White River near Fayetteville.....	31
Beaver Lake near Eureka Springs.....	32
White River at Beaver Dam near Eureka Springs.....	33
Kings River near Berryville.....	34
Bull Shoals Lake near Flippin.....	35
White River near Flippin.....	36
Buffalo River near St. Joe.....	37
Norfork Lake near Norfork.....	38
North Fork River at Norfork Dam, near Norfork.....	39
White River at Calico Rock.....	40
South Sylamore Creek:	
North Sylamore Creek near Fifty Six.....	41
Black River near Corning.....	42
Spring River at Imboden.....	43
Eleven Point River near Ranvenden Springs.....	44
Black River at Black Rock.....	45
Strawberry River near Evening Shade.....	46
Piney Fork at Evening Shade.....	47
Strawberry River near Poughkeepsie.....	48
White River at Newport.....	49
Middle Fork Little Red River at Shirley.....	50
South Fork Little Red River at Clinton.....	51
Greers Ferry Lake near Heber Springs.....	52
Little Red River near Heber Springs.....	53
Bayou Des Arc:	
Cypress Bayou near Beebe.....	54
Cache River at Egypt.....	55
Cache River at Patterson.....	56
Bayou DeView at Morton.....	56
White River at Clarendon.....	57
Big Creek at Poplar Grove.....	59

MISSISSIPPI RIVER BASIN--continued

ARKANSAS RIVER BASINArkansas River:Illinois River:

Osage Creek near Elm Springs.....	60
Flint Creek at Springtown.....	61
Baron Fork at Dutch Mills.....	62
Poteau River at Cauthron.....	63
James Fork near Hackett.....	64
Lee Creek near Van Buren.....	65
Arkansas River at Dam No. 13, near Van Buren.....	66
Mulberry River near Mulberry.....	67
Ozark Lake at Ozark.....	68
Big Piney Creek near Dover.....	69
Lake Dardanelle at Dardanelle.....	70
Arkansas River at Dardanelle.....	71
Petit Jean River near Booneville.....	72
Blue Mountain Lake near Waveland.....	73
Petit Jean River near Waveland.....	74
Dutch Creek at Waltreak.....	75
Petit Jean River at Danville.....	76
Cadron Creek near Guy.....	77
Fourche LaFave River near Gravelly.....	78
Nimrod Lake near Nimrod.....	79
Fourche LaFave River near Nimrod.....	80
South Fourche LaFave River near Hollis.....	81
Arkansas River at Murray Dam, at Little Rock.....	82
Bayou Meto near Lonoke.....	83
Mississippi River near Arkansas City.....	84

RED RIVER BASIN

Red River at Index.....	85
<u>Little River:</u>	
Rolling Fork near DeQueen.....	86
Little River near Horatio.....	87
Cossatot River near Vandervoort.....	88
Cossatot River near DeQueen.....	89
Saline River near Dierks.....	90
Saline River near Lockesburg.....	91
Millwood Lake near Ashdown.....	92
Little River at Millwood Dam, near Ashdown.....	93
Red River at Fulton.....	94
Ouachita River near Mount Ida.....	95
Lake Ouachita near Hot Springs.....	96
Ouachita River at Blakely Mountain Dam, near Hot Springs.....	97
Lake Hamilton near Hot Springs.....	98
Lake Catherine at Jones Mill.....	99
Ouachita River near Malvern.....	100
DeGray Lake near Arkadelphia.....	101
Caddo River at DeGray Regulating Dam, near Arkadelphia.....	102
Ouachita River at Arkadelphia.....	103

MISSISSIPPI RIVER BASIN--continued

RED RIVER BASIN--continued

Ouachita River--continued

Little Missouri River:

Lake Greeson near Murfreesboro.....	104
-------------------------------------	-----

Little Missouri River at Narrows Dam, near Murfreesboro....	105
---	-----

Little Missouri River near Murfreesboro.....	106
--	-----

Antoine River at Antoine.....	107
-------------------------------	-----

Little Missouri River near Boughton.....	108
--	-----

Ouachita River at Camden.....	109
-------------------------------	-----

Smackover Creek near Smackover.....	110
-------------------------------------	-----

Moro Creek near Fordyce.....	111
------------------------------	-----

Saline River at Benton.....	112
-----------------------------	-----

Saline River near Sheridan.....	113
---------------------------------	-----

Hurricane Creek near Sheridan.....	114
------------------------------------	-----

Saline River near Rye.....	115
----------------------------	-----

Bayou Bartholomew near McGehee.....	116
-------------------------------------	-----

Bayou D'Arbonne:

Cornie Bayou near Three Creeks.....	117
-------------------------------------	-----

Discharge at partial-record stations and miscellaneous sites:

Crest-stage partial-record stations.....	118
--	-----

Measurements at miscellaneous sites.....	125
--	-----

Index.....	128
------------	-----

WATER RESOURCES DATA FOR ARKANSAS, 1974

PART 1. SURFACE-WATER RECORDS

By E. P. Mathews and M. A. Moore

INTRODUCTION

Water resources data for the 1974 water year for Arkansas including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report. Locations of gaging stations are shown in figure 1. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of R. T. Sniegocki, district chief. Arkansas district personnel who contributed significantly to the collection and preparation of data included in this report were: R. C. Gilstrap, T. E. Lamb, L. D. Reid, J. E. Porter, S. R. Kennedy, J. H. Garrett, J. C. Cottingham, R. K. Knott, B. W. Vines, A. L. Meeker, J. Edds, D. B. Magee. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Arkansas.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. More information is given under the heading "Publications" on page 10.

COOPERATION

The U.S. Geological Survey and organizations of the State of Arkansas have had cooperative agreements for the systematic collection of surface-water records since 1927. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Arkansas Geological Commission, Norman F. Williams, State geologist.

Arkansas Department of Pollution Control and Ecology,
S. Ladd Davies, director.

Arkansas State Highway Commission, Henry C. Gray, director.

Arkansas Division of Soil and Water Resources, John P. Saxton, director.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 74 gaging stations published in this report.

Assistance was also furnished by the National Weather Service, NOAA, U.S. Department of Commerce.

The Arkansas Power and Light Company aided in collecting records.

DEFINITION OF TERMS

The terms related to streamflow and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 13.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons, or 1,233 cubic metres.

Base flow is sustained or fair weather runoff composed largely of ground water effluent.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2.445 cubic metres. It represents a runoff of 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second (m³/s).

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.HT.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Partial-record station is a particular site where limited stream-flow data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (IN) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering upstream from all main-stream stations are listed before the first main-stream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

As an added means of identification, each gaging station and partial record station has been assigned a station number. Numbers have been assigned in the same downstream order as described in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations, therefore, the station number for a partial-record station indicates downstream-order

position in a list made up of both types of stations. Gaps are left in the numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 07261500, includes the part number "07" and a 6-digit station number. The number is shown just to the left of the station name. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin. The station number for each station is shown on the location map (fig. 1) as an abbreviated number. The abbreviated number contains only the essential digits. For example 2615 is the abbreviated number for station 07261500.

EXPLANATION OF SURFACE-WATER DATA

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey from experience in stream gaging since 1888. These methods are described in standard textbooks, Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chap. A6. (See also SELECTED REFERENCES.) Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to determine the extremes of discharge, these extensions are made by using indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating tables gives the daily mean discharge, from which the monthly and yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers

are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is used as a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed by using the gage-height record and occasional winter discharge measurements; consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologist, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed. Discharge over spillways is computed from a stage discharge relation curve defined by discharge measurements.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated by the use of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or from stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "sea level datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record, or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents), and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph, headed "Current year:," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES," headed "Period of record:," the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by the use of water-stage recorder (graphic or digital), a crest-stage gage, or nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of water-quality records, is given

under "REMARKS"; for lake stations information on the dam forming the lake, the capacity, outlet works and spillway, and purpose and use of the lake, is also given under "REMARKS."

Previously published records of some stations are known to be in error from data or information later obtained. Revisions of such records are generally published along with the current records in one of the annual or compilation reports. To make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water year for which figures are revised in that report. In listing the water years, only one number is given: for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is shown by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are generally not published in the annual series of reports.

Skeleton capacity tables are published for all lakes for which records of contents are published on a daily basis.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM") or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicated periods for which the discharge is computed or estimated by special methods because of no gage-

height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For most gaging stations on lakes the data presented comprise a description of the station and a monthly summary table of stage and contents. For some lakes a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all lakes for which records are published on a daily basis, but is not published for lakes for which only monthly data are given.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of Data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. Evaporation from a lake is not included in the adjustments for changes in lake contents, unless it is so stated.

Publications

In each water-supply paper entitled "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Arkansas for the period October 1960 to September 1965 are in Water-Supply Papers 1920 and 1921, and for period October 1965 to September 1970 in Water-Supply Papers 2120 and 2121.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Arkansas are compiled in Water-Supply Papers 1311, through September 1950, and in 1731 for October 1950 September 1960.

Special reports on major floods or droughts or of other hydrologic studies have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

At or near some gaging stations, water-quality records also are collected. Data obtained on the quality of the stream water are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

HYDROLOGIC CONDITIONS

On an annual basis, streamflow was above normal throughout the State for the second consecutive year.

A storm in November caused flooding in north-central Arkansas and storms in June produced flooding in south-central, northwest and west-central Arkansas. Floods exceeding a 50-year recurrence interval and establishing new maximums for the period of record occurred at the gages at Smackover Creek near Smackover, Cornie Bayou near Three Creeks, Three Creek near Three Creeks, Flint Creek at Springtown, Buffalo River near St. Joe, Spadra Creek at Clarksville, and Mulberry River at Mulberry.

Runoff at the index station on the Saline River near Rye, representative of south Arkansas, was 197 percent of normal for the year being above normal for seven months, normal for four months, and below normal for one month.

Runoff at the index station on the Buffalo River near St. Joe, representative of western and northern Arkansas was 143 percent of normal for the year being above normal for five months and normal for seven months.

SELECTED REFERENCES

- Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.
- Corbett, D. M., and others, 1943, reprinted 1957, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

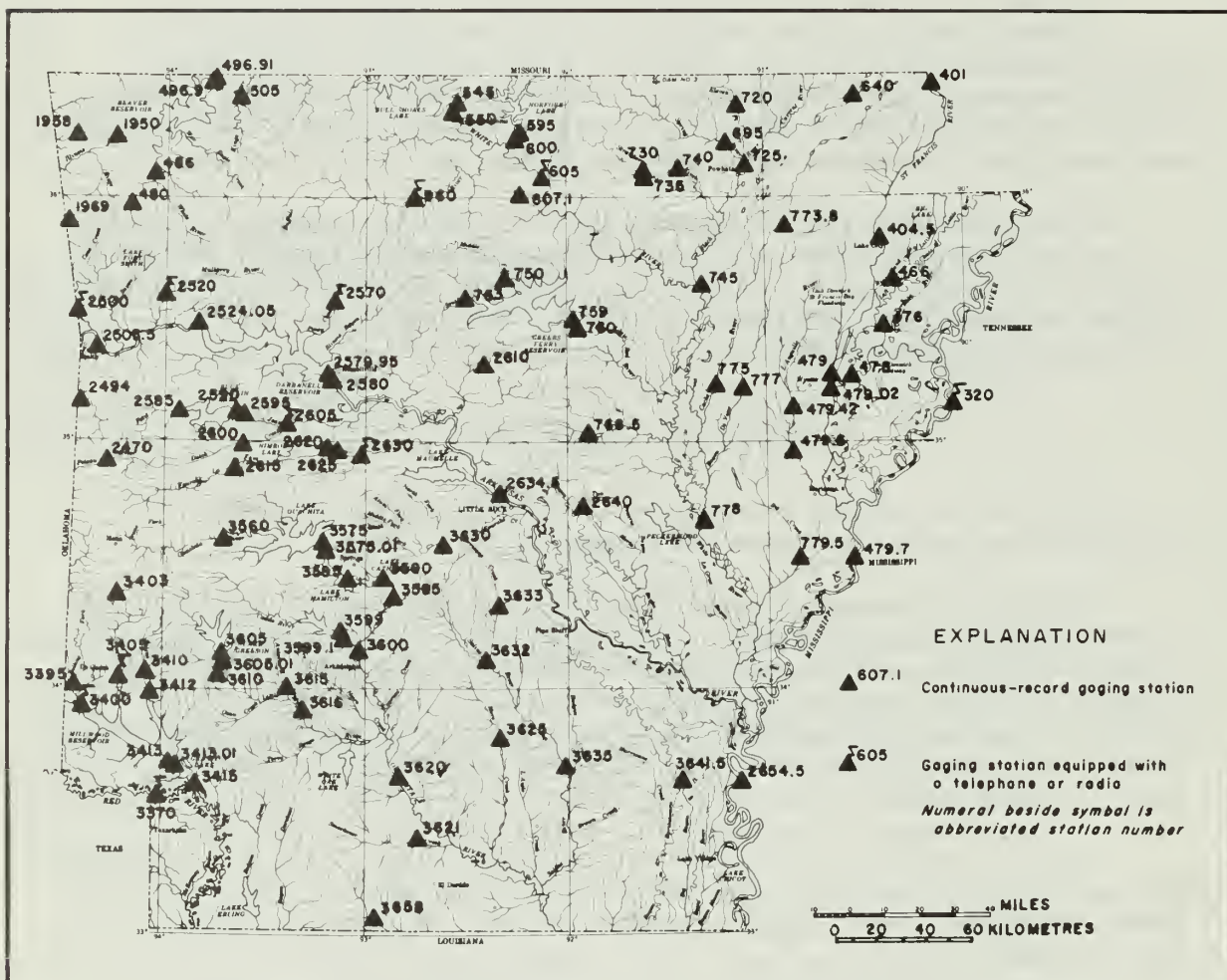


Figure 1.--Locations of continuous record gaging stations.

Table 1.--Factors for converting English units to
International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
Length		
inches(in)	25.4	millimetres(mm)
	.0254	metres(m)
feet(ft)	.3048	metres(m)
miles(mi)	1.609	kilometres(km)
Area		
acres	4047	square metres(m ²)
	.4047	*hectares(ha)
	.4047	square hectometre(hm ²)
	.004047	square kilometres(km ²)
square miles(mi ²)	2.590	square kilometres(km ²)
Volume		
cubic feet(ft ³)	28.32	cubic decimetres(dm ³)
	.02832	cubic metres(m ³)
cfs-days(ft ³ /s-day)	2447	cubic metres(m ³)
	2.447x10 ³	cubic hectometres(hm ³)
acre-feet(acre-ft)	1233	cubic metres(m ³)
	1.233x10 ³	cubic hectometres(hm ³)
	1.233x10 ⁶	cubic kilometres(km ³)
Flow		
cubic feet per second(ft ³ /s)	28.32	litres per second(l/s)
	28.32	cubic decimetres per sec(dm ³ /s)
	.02832	cubic metres per sec(m ³ /s)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

GAGING-STATION RECORDS

MISSISSIPPI RIVER MAIN STEM

07032000 Mississippi River at Memphis, Tenn.

LOCATION.--Lat 35°07'37", long 90°04'25", Shelby County, on left bank 50 ft (15 m) downstream from Harahan Bridge at Memphis, 1.3 mi (2.1 km) downstream from Beale Street gage, 3.5 mi (5.6 km) downstream from Wolf River, 70 mi (113 km) upstream from St. Francis River, and at mile 734.8 (1,182.3 km).

DRAINAGE AREA.--932,800 mi² (2,416,000 km²), approximately.

PERIOD OF RECORD.--Discharge: January 1933 to September 1973. Monthly discharge only for some periods, published in WSP 1311.

Gage heights: October 1934 to September 1951 and October 1952 to September 1973 in reports of Geological Survey. Since November 1871, at Beale Street gage, in reports of Mississippi River Commission, December 1890 to August 1932 at Beale Street gage, September 1932 to December 1934 at nonrecording gage 1,000 ft (305 m) downstream, and since December 1934 at water-stage recorder at present site, in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 183.91 ft (56.056 m) above mean sea level. Prior to Apr. 16, 1934 Beale Street nonrecording gage 1.3 mi (2.1 km) upstream at present datum. Apr. 16 to Dec. 21, 1934, nonrecording gage 1,000 ft (305 m) downstream at present datum.

AVERAGE DISCHARGE.--40 years, 462,100 ft³/s (13,100 m³/s), 334,800,000 acre-ft/yr (413 km³/yr).

EXTREMES.--Water year 1973: Maximum discharge, 1,630,000 ft³/s (46,200 m³/s) Apr. 1-2; maximum gage height, 40.48 ft (12.338 m) May 8; minimum discharge, 212,000 ft³/s (6,000 m³/s) Sept. 23, gage height, 2.03 ft (0.619 m).

Period of record: Maximum discharge, 1,980,000 ft³/s (56,100 m³/s) Feb. 8, 1937; maximum gage height, 48.69 ft (14.841 m) Feb. 10, 1937; minimum discharge, 79,200 ft³/s (2,240 m³/s) Aug. 26, 1936; minimum gage height, -5.35 ft (-1.631 m) Jan. 24, 1956.

Maximum stage prior to 1937, 46.55 ft (14.188 m) Apr. 9, 1913, at Beale Street gage or about 45.2 ft (13.78 m) at present site.

REMARKS.--Records good. Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Records furnished by Corps of Engineers.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.80	10.30	23.00	30.00	25.70	15.00	40.00	38.50	28.30	18.50	17.30	5.50
2	8.00	11.10	22.40	29.60	25.50	14.30	40.00	39.10	28.70	18.10	16.70	5.20
3	8.90	11.80	21.90	29.40	25.20	14.80	40.00	39.40	29.00	18.20	15.90	5.10
4	9.80	12.80	21.60	29.60	24.90	13.60	40.30	39.60	29.20	18.20	14.30	5.10
5	10.30	14.30	21.50	29.50	24.80	13.70	40.30	39.80	29.40	18.00	13.50	4.40
6	10.80	15.80	21.40	29.60	24.70	14.00	40.30	40.00	29.60	17.40	12.40	3.70
7	10.60	17.80	21.10	29.60	24.80	14.40	40.20	40.30	29.70	16.60	11.20	3.80
8	12.00	19.00	20.70	29.60	25.70	14.70	40.10	40.50	29.70	15.90	10.00	4.00
9	12.30	19.70	21.10	29.40	26.20	15.80	40.00	40.40	29.80	15.70	9.20	3.80
10	12.30	20.30	21.20	29.20	26.80	17.80	39.70	40.20	29.60	16.10	8.60	3.80
11	11.80	20.30	21.80	28.80	27.30	20.60	39.40	40.10	29.50	16.70	8.00	3.50
12	11.40	20.00	22.90	28.40	27.80	22.80	39.10	39.90	29.30	16.50	7.00	3.00
13	11.20	20.00	24.50	27.70	28.10	24.70	38.80	39.70	29.20	15.60	6.70	3.30
14	11.30	20.20	25.60	26.50	28.60	26.50	38.60	39.40	29.00	14.50	7.40	4.10
15	11.10	20.30	26.80	24.90	28.50	27.80	38.30	39.00	28.80	13.60	8.10	4.40
16	10.10	20.90	27.50	22.90	28.20	29.20	38.00	38.50	28.20	13.20	8.90	3.80
17	9.30	21.80	28.20	20.80	27.80	30.20	37.80	38.00	27.30	12.90	10.50	3.60
18	8.80	22.80	28.90	18.60	27.50	31.00	37.40	37.50	26.10	12.40	11.00	3.50
19	8.60	23.70	29.70	16.80	27.30	31.90	37.10	37.00	24.90	11.70	10.90	2.90
20	8.30	24.20	30.10	15.40	27.20	32.80	37.70	36.50	23.90	11.20	10.80	2.80
21	8.20	24.30	30.50	15.10	27.00	33.80	37.50	36.00	23.10	10.40	10.80	2.90
22	8.40	24.60	30.80	16.30	26.50	34.70	37.50	35.30	22.60	9.60	10.10	2.70
23	8.60	24.60	31.00	17.90	25.60	36.20	37.70	34.40	22.30	9.30	9.60	2.10
24	8.30	24.50	31.10	20.50	24.10	37.30	37.60	33.50	22.30	9.20	8.90	2.20
25	9.20	24.50	31.20	22.60	22.30	38.10	37.60	32.20	22.60	9.80	8.50	2.40
26	9.00	24.40	31.30	24.00	19.90	38.70	37.70	30.80	22.80	11.40	8.10	2.30
27	8.90	24.20	31.30	25.00	17.70	39.10	37.90	29.60	22.50	14.40	7.90	2.40
28	8.90	24.00	31.20	25.70	16.00	39.30	38.10	28.40	21.90	16.80	7.30	2.50
29	8.80	23.70	30.90	26.20	-----	39.50	38.30	27.90	20.80	18.00	6.80	2.80
30	9.10	23.40	30.50	26.20	-----	39.60	38.40	27.80	19.50	18.20	6.30	3.50
31	9.70	-----	30.40	26.00	-----	39.80	-----	28.00	-----	17.90	5.90	-----

07032000 Mississippi River at Memphis, Tenn.--Continued

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	329	384	783	1,020	885	504	1,630	1,440	944	576	550	260
2	336	406	769	1,050	879	490	1,630	1,490	947	568	525	254
3	357	426	757	1,040	872	478	1,620	1,510	952	573	479	254
4	379	458	754	1,040	867	477	1,620	1,520	953	572	445	254
5	385	504	755	1,030	866	483	1,610	1,540	967	564	418	239
6	396	553	753	1,030	868	492	1,590	1,540	984	545	386	229
7	386	627	739	1,030	877	508	1,570	1,560	998	522	360	232
8	419	667	730	1,020	917	527	1,540	1,570	997	504	337	234
9	422	694	740	1,010	938	576	1,520	1,540	992	500	322	230
10	415	716	747	995	964	650	1,480	1,550	983	516	313	229
11	397	718	770	978	992	756	1,480	1,560	974	531	302	225
12	387	715	823	955	1,010	838	1,480	1,540	963	523	285	217
13	386	720	881	922	1,030	890	1,460	1,520	954	496	285	227
14	386	731	920	870	1,040	949	1,430	1,490	943	463	301	243
15	379	742	966	810	1,030	992	1,410	1,470	926	443	317	245
16	355	748	994	739	1,010	1,050	1,390	1,430	899	433	338	235
17	340	767	1,020	667	985	1,070	1,360	1,390	860	424	373	235
18	334	789	1,050	595	967	1,090	1,350	1,370	816	410	381	233
19	330	805	1,070	544	955	1,120	1,340	1,340	774	400	379	224
20	326	800	1,100	507	947	1,150	1,370	1,320	741	379	378	223
21	327	808	1,110	516	933	1,200	1,360	1,300	716	359	374	224
22	332	819	1,120	549	903	1,260	1,370	1,240	701	345	356	220
23	336	823	1,130	610	865	1,330	1,390	1,210	695	339	345	213
24	341	823	1,140	696	808	1,400	1,380	1,140	699	338	330	216
25	348	825	1,140	766	737	1,460	1,390	1,080	706	362	322	219
26	345	825	1,140	815	656	1,510	1,410	1,010	709	400	314	218
27	344	819	1,130	849	583	1,530	1,430	967	702	482	307	219
28	344	813	1,120	876	531	1,550	1,440	931	681	548	294	223
29	345	802	1,110	894	-----	1,580	1,440	918	644	578	285	229
30	352	791	1,090	897	-----	1,610	1,440	925	607	580	275	244
31	370	-----	1,080	891	-----	1,620	-----	940	-----	567	267	-----
TOTAL	11,228	21,118	29,431	26,211	24,915	31,140	43,930	41,351	25,427	14,840	10,943	6,947
MEAN	362	704	949	846	890	1,005	1,464	1,334	848	479	353	232
MAX	422	825	1,140	1,050	1,040	1,620	1,630	1,570	998	580	550	260
MIN	326	384	730	507	531	477	1,340	918	607	338	267	213
AC-FT	22,270	41,890	58,380	51,990	49,420	61,770	87,140	82,020	50,430	29,440	21,710	13,780
CAL YR 1972	TOTAL	214,821	MEAN	587	MAX	1,150	MIN	257.0	AC-FT	426,100		
WTR YR 1973	TOTAL	287,481	MEAN	788	MAX	1,630	MIN	213.0	AC-FT	570,200		

ST. FRANCIS RIVER BASIN

07040100 St. Francis River at St. Francis, Ark.

LOCATION.--Lat 36°27'21", long 90°08'13", in sec.18, T.21 N., R.9 E., Clay County, at bridge on U.S. Highway 62 at St. Francis and at mile 229 (368 km).

DRAINAGE AREA.--1,772 mi² (4,589 km²).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1930 to December 1946 in files of Corps of Engineers, Memphis district. January 1946 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers. Gage-height records since 1916 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 270.57 ft (82.470 m) above mean sea level. Prior to Aug. 1, 1946, nonrecording gage.

AVERAGE DISCHARGE.--44 years, 2,133 ft³/s (60.4 m³/s), 1,545,000 acre-ft/yr (1,900 hm³/yr).

EXTREMES.--Water year 1973: Maximum discharge, 14,500 ft³/s (411 m³/s) May 2, gage height, 22.37 ft (6.818 m); minimum, 130 ft³/s (3.68 m³/s) Sept. 28, gage height, 2.35 ft (0.716 m).
 Water year 1974: Maximum discharge, 15,400 ft³/s (436 m³/s) Dec. 31; maximum gage height, 21.75 ft (6.629 m) Dec. 27; minimum daily discharge, 179 ft³/s (5.07 m³/s) Aug. 7-9.
 Period of record: Maximum discharge, 39,200 ft³/s (1,110 m³/s) Mar. 15, 1935, gage height, 28.2 ft (8.60 m); minimum, 55 ft³/s (1.56 m³/s) Sept. 20, 1954.
 Maximum stage since at least 1916, that of Mar. 15, 1935.

REMARKS.--Some regulation by Wappapello Lake (Missouri), 80 mi (129 km) upstream, since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm³). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,160	4,630	3,850	4,570	8,000	1,270	10,500	12,200	6,360	5,360	850	229
2	1,780	5,460	3,780	4,490	7,180	1,210	9,780	14,000	6,230	5,300	841	295
3	1,420	5,640	3,680	5,070	6,130	1,070	9,380	14,200	6,180	5,210	747	287
4	1,010	5,710	3,570	5,990	5,670	958	9,040	13,000	6,080	5,090	572	238
5	673	5,740	3,480	6,690	5,470	984	8,670	11,600	6,150	4,980	426	206
6	602	5,840	3,520	7,230	5,340	1,120	8,320	10,800	6,230	4,860	372	213
7	610	7,170	3,520	7,820	5,270	1,880	8,020	9,680	6,270	4,700	399	295
8	573	7,550	5,080	8,390	5,790	2,580	7,890	9,950	6,300	4,570	423	308
9	558	7,240	6,490	8,810	6,090	2,860	7,860	9,430	6,340	4,430	385	279
10	472	6,850	6,580	9,130	5,930	3,920	7,770	8,880	6,370	4,220	368	415
11	495	6,540	6,200	9,360	5,600	6,620	7,560	8,550	6,400	3,900	486	535
12	393	6,250	6,010	9,540	5,170	7,440	7,320	8,280	6,750	3,810	490	382
13	357	6,230	6,200	9,610	5,080	7,630	7,130	8,050	6,710	3,660	574	317
14	396	6,170	5,920	9,640	4,810	8,600	7,030	7,860	6,820	3,170	457	344
15	502	5,850	5,700	9,590	4,610	9,750	6,950	7,660	6,850	1,960	493	430
16	698	5,690	5,410	9,500	4,080	10,400	6,890	7,410	6,670	1,260	768	410
17	700	5,540	4,960	9,340	3,550	10,800	6,820	7,130	6,390	922	835	326
18	1,080	5,350	4,520	9,150	3,230	10,900	7,230	6,790	6,160	731	501	291
19	2,650	5,220	4,410	9,270	3,020	10,900	8,480	6,410	6,020	623	316	280
20	3,290	5,100	4,790	8,810	2,860	11,100	10,000	6,060	5,960	570	272	306
21	3,060	4,900	4,930	9,540	2,760	11,300	9,780	5,880	5,930	528	312	362
22	2,550	4,660	4,840	9,950	2,640	11,200	10,600	5,760	5,910	591	379	295
23	2,620	4,430	4,590	9,340	2,530	10,700	12,500	5,740	5,860	507	353	238
24	2,610	4,250	4,320	8,810	2,220	10,500	12,900	6,060	5,780	420	284	186
25	2,090	4,220	4,130	8,600	1,720	10,300	13,100	6,340	5,680	420	234	156
26	1,580	4,290	4,000	8,620	1,320	10,100	13,800	6,150	5,590	787	209	138
27	1,390	4,250	3,900	8,670	1,200	10,100	14,200	5,930	5,510	1,350	212	137
28	1,490	4,130	3,750	9,040	1,230	9,780	13,700	5,910	5,470	1,740	262	133
29	1,360	4,020	3,660	9,290	-----	9,750	12,900	6,200	5,430	1,360	290	208
30	1,160	3,930	3,840	8,830	-----	9,640	12,300	6,440	5,400	931	318	455
31	2,640	-----	4,440	8,350	-----	10,300	-----	6,440	-----	835	243	-----
TOTAL	42,969	162,850	144,070	261,040	118,540	225,662	288,420	254,790	183,800	78,795	13,671	8,694
MEAN	1,386	5,428	4,647	8,421	4,234	7,279	9,614	8,219	6,127	2,542	441	290
MAX	3,290	7,550	6,580	9,950	8,000	11,300	14,200	14,200	6,850	5,360	850	535
MIN	357	3,930	3,480	4,490	1,200	958	6,820	5,740	5,400	420	209	133
AC-FT	85,230	323,000	285,800	517,800	235,100	447,600	572,100	505,400	364,600	156,300	27,120	17,240

CAL YR 1972 TOTAL 822,464 MEAN 2,247 MAX 10,500 MIN 141 AC-FT 1,631,000
 WTR YR 1973 TOTAL 1,783,301 MEAN 4,886 MAX 14,200 MIN 133 AC-FT 3,537,000

07040100 St. Francis River at St. Francis, Ark.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	514	629	5,970	13,800	5,440	5,960	4,110	5,080	1,580	3,040	188	2,130
2	471	650	5,310	12,500	5,150	5,800	3,220	4,430	1,540	2,980	214	2,160
3	402	1,110	4,760	11,700	4,870	5,490	2,450	3,280	1,410	2,260	257	2,110
4	337	2,000	5,460	11,100	4,550	5,090	1,970	2,000	1,360	1,370	225	2,040
5	304	2,840	5,990	10,400	4,230	4,640	2,150	1,380	1,370	829	193	1,990
6	259	2,760	5,800	9,610	3,920	4,280	2,580	1,140	1,430	528	182	1,830
7	266	2,360	5,280	8,690	3,590	3,430	2,300	1,020	1,910	406	179	1,640
8	299	1,630	4,760	7,470	3,290	2,770	1,690	1,040	1,800	667	179	1,540
9	326	1,050	4,460	6,640	3,030	3,310	1,740	1,330	1,580	564	179	1,510
10	309	833	4,940	6,970	2,770	3,830	2,480	2,150	1,490	516	219	1,740
11	354	753	5,640	8,160	2,490	5,250	2,970	2,480	1,470	621	212	2,040
12	429	690	6,440	7,350	2,300	5,860	2,900	2,310	1,460	600	214	1,870
13	367	480	7,230	6,330	2,190	5,800	2,810	1,930	1,410	547	289	1,730
14	298	402	7,800	5,470	2,090	5,860	3,040	1,810	1,760	488	398	1,570
15	591	469	8,350	5,280	2,040	6,020	3,600	4,810	2,820	361	384	1,440
16	1,440	610	8,740	5,390	2,000	6,530	4,060	6,290	2,910	300	291	1,160
17	2,180	610	9,110	4,800	1,880	6,640	4,260	6,060	2,630	282	239	965
18	2,380	547	9,450	3,610	1,790	6,580	3,990	5,720	2,510	314	526	962
19	1,880	452	9,840	2,930	1,880	6,480	3,170	5,200	2,580	336	791	1,100
20	1,200	454	10,800	3,770	1,970	6,340	2,380	4,880	2,840	342	633	1,110
21	831	409	11,000	4,930	2,200	6,320	1,970	4,740	2,960	348	722	907
22	627	446	11,000	5,010	4,650	6,260	2,500	5,400	3,050	362	671	640
23	558	1,100	11,100	5,050	5,290	6,050	3,460	6,080	3,140	401	447	539
24	480	3,650	11,700	5,260	5,210	5,910	4,090	5,960	3,180	359	304	543
25	472	5,980	13,100	5,440	5,390	5,780	4,700	5,560	3,160	345	260	554
26	427	7,170	13,400	5,600	5,640	5,630	5,130	5,080	3,120	440	423	528
27	376	7,910	13,900	5,890	5,850	5,340	5,410	4,680	3,090	316	524	461
28	334	8,000	13,700	6,300	5,960	5,020	5,510	4,410	3,070	253	505	435
29	447	7,370	14,400	6,510	-----	4,720	5,460	4,090	3,040	222	677	478
30	690	6,720	15,000	6,100	-----	4,510	5,320	3,160	3,040	204	1,050	652
31	751	-----	15,000	5,750	-----	4,360	-----	2,040	-----	190	1,460	-----
TOTAL	20,599	70,084	279,430	213,810	101,860	165,900	101,420	115,540	68,710	20,791	13,035	38,394
MEAN	664	2,336	9,014	6,897	3,638	5,352	3,381	3,727	2,290	671	420	1,280
MAX	2,380	8,000	15,000	13,800	5,960	6,640	5,510	6,290	3,180	3,040	1,460	2,160
MIN	259	402	4,460	2,930	1,790	2,770	1,690	1,020	1,360	190	179	435
AC-FT	40,860	139,000	554,200	424,100	202,000	329,100	201,200	229,200	136,300	41,240	25,650	76,150
CAL YR 1973	TOTAL 1,803,525		MEAN 4,941		MAX 15,000		MIN 133		AC-FT 3,577,000			
WTR YR 1974	TOTAL 1,209,573		MEAN 3,314		MAX 15,000		MIN 179		AC-FT 2,399,000			

ST. FRANCIS RIVER BASIN

07040450 St. Francis River at Lake City, Ark.

LOCATION.--Lat 35°49'16", long 90°25'56", in SE¼ sec.22, T.14 N., R.6 E., Craighead County, on left bank pier of bridge on State Highway 18 at Lake City and at mile 173.6 (279.3 km).

DRAINAGE AREA.--2,374 mi² (6,150 km²).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1931 to December 1945 in files of Corps of Engineers. January 1946 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers. Gage-height records since 1916 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 217.69 ft (66.352 m) above mean sea level. Prior to Sept. 1, 1948, nonrecording gage at railroad bridge 0.1 mi (0.2 km) downstream at present datum.

AVERAGE DISCHARGE.--43 years, 3,001 ft³/s (85.0 m³/s), 2,174,000 acre-ft/yr (2,680 hm³/yr).

EXTREMES.--Water year 1973: Maximum discharge, 30,400 ft³/s (861 m³/s) Apr. 21, gage height, 12.79 ft (3.898 m); minimum, 513 ft³/s (14.5 m³/s) Sept. 27, gage height, 2.41 ft (0.735 m).
 Water year 1974: Maximum discharge, 17,500 ft³/s (496 m³/s) Nov. 27, gage height, 10.46 ft (3.188 m), minimum daily, 529 ft³/s (15.0 m³/s) Oct. 1.
 Period of record: Maximum discharge, 36,700 ft³/s (1,040 m³/s) Jan. 22-24, 1937, gage height, 13.3 ft (4.05 m); minimum, 60 ft³/s (1.70 m³/s) Aug. 29, Sept. 1, 1936.
 Maximum stage since at least 1916, that of Jan. 22-24, 1937.

REMARKS.--Some regulation by Wappapello Lake (Missouri) 135 mi (217 km) upstream since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm³).

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,120	6,560	4,920	5,010	9,850	3,320	17,600	20,000	7,240	5,760	1,300	564
2	1,010	8,610	4,760	4,710	10,500	3,190	16,900	24,800	7,060	5,670	1,290	566
3	1,080	9,020	4,650	4,660	10,400	3,140	14,700	26,100	7,090	5,700	1,220	572
4	1,210	8,100	4,640	5,350	9,850	2,860	12,900	24,700	7,290	5,440	1,140	1,220
5	1,330	6,830	4,580	5,700	9,210	2,620	11,800	19,700	7,520	5,640	1,060	3,120
6	1,500	6,140	4,680	5,670	8,680	2,440	11,100	19,100	7,790	5,640	985	4,470
7	1,690	8,670	4,560	5,500	8,190	3,070	10,500	21,900	7,870	5,230	892	3,290
8	1,750	11,200	6,060	5,350	10,400	3,190	10,100	22,200	7,580	4,840	849	2,200
9	1,680	11,600	9,660	5,580	10,800	2,800	9,830	20,000	7,290	4,490	878	1,350
10	1,440	10,600	11,500	5,930	9,630	3,000	9,600	17,600	7,120	4,220	865	1,030
11	1,230	9,260	10,600	6,340	8,080	6,420	9,100	15,100	7,060	3,730	1,170	835
12	1,010	8,370	9,130	6,740	7,210	9,140	8,570	13,600	7,210	3,510	1,540	760
13	852	8,570	8,810	7,120	7,030	9,740	8,160	12,300	7,610	3,510	1,670	719
14	773	9,400	8,860	7,820	7,500	9,030	7,930	11,400	8,890	3,460	1,600	698
15	716	9,410	9,110	8,430	7,610	8,920	7,760	10,900	9,210	3,460	1,610	668
16	650	9,020	9,080	9,170	7,210	9,070	7,730	10,200	8,640	3,490	1,390	646
17	600	8,480	8,630	9,350	6,630	9,530	7,700	9,950	8,220	3,440	1,240	644
18	607	8,040	8,080	9,350	6,080	9,850	9,390	9,740	8,080	3,390	1,090	630
19	648	7,910	7,650	10,300	5,670	10,300	14,400	9,630	8,360	3,390	1,000	622
20	666	7,890	7,540	10,600	5,300	11,200	24,400	9,460	8,220	2,880	930	616
21	660	7,720	7,390	12,200	5,060	12,400	30,000	9,210	7,670	2,380	865	607
22	763	7,390	7,020	16,200	4,760	12,700	28,500	8,850	7,030	1,880	792	587
23	1,200	7,020	6,550	16,400	4,490	12,700	26,700	8,850	6,680	1,420	727	566
24	1,210	6,660	6,110	14,000	4,250	12,700	26,800	10,900	6,480	1,300	689	552
25	1,210	6,480	5,840	11,600	4,050	13,200	25,900	11,600	6,340	1,220	665	542
26	1,290	6,380	5,710	10,500	3,900	13,400	23,800	11,300	6,130	1,120	630	527
27	1,960	6,120	5,590	10,300	3,730	12,900	24,600	16,100	6,080	1,040	601	515
28	2,640	5,810	5,420	10,700	3,560	12,100	21,400	14,800	5,990	970	577	523
29	2,760	5,470	5,180	11,100	-----	11,600	19,800	10,900	5,900	980	570	525
30	2,700	5,160	5,050	10,600	-----	11,300	17,600	8,920	5,840	1,060	566	527
31	4,500	-----	5,130	9,780	-----	14,300	-----	7,820	-----	1,210	558	-----
TOTAL	42,455	237,890	212,490	272,060	199,630	262,130	475,270	447,630	219,490	101,470	30,959	30,691
MEAN	1,370	7,930	6,855	8,776	7,130	8,456	15,840	14,440	7,316	3,273	999	1,023
MAX	4,500	11,600	11,500	16,400	10,800	14,300	30,000	26,100	9,210	5,760	1,670	4,470
MIN	600	5,160	4,560	4,660	3,560	2,440	7,700	7,820	5,840	970	558	515
AC-FT	84,210	471,900	421,500	539,600	396,000	519,900	942,700	887,900	435,400	201,300	61,410	60,880

CAL YR 1972 TOTAL 1,064,912 MEAN 2,910 MAX 15,300 MIN 425 AC-FT 2,112,000
 WTR YR 1973 TOTAL 2,532,165 MEAN 6,937 MAX 30,000 MIN 515 AC-FT 5,023,000

07040450 St. Francis River at Lake City, Ark.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	529	700	8,680	9,240	7,240	6,160	6,420	4,810	7,060	2,680	860	1,180
2	535	681	7,820	9,600	7,210	6,600	6,020	5,280	6,600	2,800	808	1,380
3	568	684	7,290	9,630	7,180	6,970	5,640	5,670	6,000	2,880	778	1,880
4	610	711	8,460	9,280	6,970	7,320	5,300	6,080	5,130	3,050	749	2,360
5	649	776	9,210	9,600	6,510	7,700	4,980	6,220	4,490	3,270	724	2,520
6	652	792	8,190	9,950	6,100	7,870	4,620	5,870	3,610	3,440	716	2,460
7	635	797	6,630	9,630	5,700	8,160	4,080	5,100	4,270	3,510	708	2,270
8	616	835	5,410	9,950	5,330	8,050	3,710	4,200	5,080	3,340	689	2,120
9	593	905	4,960	10,300	4,980	7,440	3,390	3,290	4,810	2,970	668	2,000
10	572	1,080	4,860	11,000	4,640	6,770	3,170	2,690	4,050	2,690	657	1,910
11	560	1,260	4,840	13,900	4,300	6,770	3,140	2,700	3,190	2,450	762	1,790
12	562	1,380	4,640	12,600	4,030	7,350	4,390	3,540	2,720	2,210	787	1,760
13	593	1,550	4,370	11,000	3,760	7,260	4,790	3,590	2,480	2,060	849	1,740
14	618	1,550	4,200	9,240	3,540	6,540	4,490	2,970	2,320	1,840	955	1,730
15	624	1,390	4,350	7,320	3,320	6,080	4,220	2,810	2,420	1,580	960	1,850
16	622	1,280	4,760	7,000	3,170	6,390	3,780	3,170	2,860	1,360	1,030	1,970
17	608	1,160	5,380	6,710	3,170	6,860	3,390	3,290	2,820	1,290	940	1,980
18	610	1,060	6,130	6,130	3,070	6,970	3,120	3,190	2,640	1,220	1,920	1,940
19	654	1,130	6,970	5,280	3,710	7,000	3,000	3,190	2,440	1,120	2,620	1,820
20	716	1,120	9,000	5,280	4,030	7,290	3,070	4,050	2,380	1,030	2,690	1,380
21	781	1,320	14,200	5,280	4,300	7,700	4,440	5,060	2,480	960	2,280	1,310
22	870	1,390	13,400	5,030	6,450	7,960	9,490	6,000	2,600	920	1,640	1,250
23	1,020	1,730	12,600	4,540	7,090	7,790	11,400	6,970	2,630	1,730	1,280	1,200
24	1,160	5,030	11,800	4,270	6,250	7,440	8,890	7,260	2,600	3,020	1,160	1,140
25	1,230	10,900	10,900	4,030	4,810	7,090	6,050	6,770	2,570	3,930	1,100	1,120
26	1,210	15,600	10,300	4,250	4,370	6,970	4,250	6,220	2,580	3,340	1,080	1,000
27	1,120	17,200	9,630	4,980	4,880	7,030	3,460	6,100	2,630	2,420	1,120	889
28	975	16,100	9,030	6,080	5,610	7,090	3,440	6,360	2,660	1,560	1,060	822
29	862	13,200	9,460	6,660	-----	7,030	3,830	6,540	2,690	1,210	945	768
30	778	10,500	9,240	6,680	-----	6,940	4,350	6,480	2,690	1,050	985	722
31	733	-----	8,960	7,500	-----	6,740	-----	6,660	-----	930	1,050	-----
TOTAL	22,865	113,811	245,670	241,940	141,720	221,330	144,320	152,130	103,500	67,860	34,570	48,261
MEAN	738	3,794	7,925	7,805	5,061	7,140	4,811	4,907	3,450	2,189	1,115	1,609
MAX	1,230	17,200	14,200	13,900	7,240	8,160	11,400	7,260	7,060	3,930	2,690	2,520
MIN	529	681	4,200	4,030	3,070	6,080	3,000	2,690	2,320	920	657	722
AC-FT	45,350	225,700	487,300	479,900	281,100	439,000	286,300	301,700	205,300	134,600	68,570	95,730
CAL YR 1973	TOTAL 2,402,946		MEAN 6,583		MAX 30,000		MIN 515		AC-FT 4,766,000			
WTR YR 1974	TOTAL 1,537,977		MEAN 4,214		MAX 17,200		MIN 529		AC-FT 3,051,000			

ST. FRANCIS RIVER BASIN

07046600 Right Hand Chute of Little River at Rivervale, Ark.

NOTE.--Records for 1973 and 1974 water years for the station listed above are not available in time for inclusion in this report. They will be published in a subsequent report.

LOCATION.--Lat 35°30'18", long 90°22'48", in SE¼ sec.7, T.10 N., R.7 E., Poinsett County, at bridge on U.S. Highway 63, 1.5 mi (2.4 km) northwest of Tyronza, and at mile 34.8 (60.0 km).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1949 to December 1963 in reports of Mississippi River Commission. January 1964 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 183.87 ft (56.044 m) above mean sea level. Prior to Aug. 16, 1948, nonrecording gage. Prior to Jan. 1, 1953, datum of gage was 0.30 ft (0.091 m) below mean sea level.

EXTREMES.--Water year 1973: Maximum discharge, 4,790 ft³/s (136 m³/s) Apr. 23; maximum gage height, 30.64 ft (9.339 m) Apr. 24, 25; minimum daily discharge, 61 ft³/s (1.73 m³/s) Oct. 12.
 Water year 1974: Maximum discharge, 4,520 ft³/s (128 m³/s) June 10; maximum gage height, 28.59 ft (8.714 m) June 9, 10; no flow Apr. 20.
 Period of record: Maximum discharge, 6,700 ft³/s (190 m³/s) Apr. 5, 1968; maximum gage height, 31.61 ft (9.635 m) Feb. 16, 1950; no flow Apr. 20, 1974.
 Maximum stage since at least 1937, that of Feb. 16, 1950.

COOPERATION.--Records furnished by Corps of Engineers.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,940	2,170	96	1,570	379	179	2,260	1,340	192	128	227	120
2	1,220	2,300	88	1,400	669	331	1,340	2,960	179	125	261	140
3	434	1,830	83	1,210	574	313	484	3,690	183	124	150	160
4	159	1,020	138	1,060	296	249	293	3,950	188	134	95	187
5	104	314	449	776	214	236	266	3,690	190	125	90	238
6	88	304	540	466	498	199	247	3,210	179	112	86	938
7	78	2,460	824	309	2,020	500	231	3,060	196	107	84	824
8	71	3,550	1,760	238	3,270	709	313	3,470	282	110	79	723
9	66	3,520	4,060	217	3,890	327	662	3,420	374	138	78	597
10	64	2,810	4,440	209	3,860	335	820	2,840	477	151	78	500
11	62	1,590	4,560	214	3,180	3,040	484	1,730	588	497	80	415
12	61	527	3,560	208	1,850	3,680	290	889	705	893	83	356
13	62	403	4,570	203	973	3,580	225	552	818	472	126	303
14	63	930	4,530	204	1,820	2,860	210	408	1,890	222	615	259
15	64	782	4,530	326	501	1,770	202	335	1,580	146	893	215
16	64	305	4,530	797	379	1,870	256	306	730	124	452	177
17	64	140	4,540	714	331	2,120	348	283	316	124	179	137
18	68	113	4,540	436	290	1,440	930	264	207	115	109	92
19	140	442	4,530	641	244	547	2,600	238	178	122	89	78
20	350	719	4,470	581	209	287	3,990	290	166	610	83	78
21	187	423	4,160	1,250	199	232	3,910	333	157	428	84	83
22	101	205	3,840	2,760	188	219	4,200	232	148	186	84	92
23	99	121	3,540	2,680	179	212	4,640	324	147	126	83	85
24	229	95	3,270	1,870	173	234	4,470	612	140	109	76	67
25	162	499	3,030	689	166	481	4,140	531	132	125	78	76
26	94	1,010	2,790	241	161	791	3,700	362	127	137	82	75
27	191	720	2,550	296	157	558	3,640	1,170	121	127	83	73
28	518	294	2,340	817	157	327	3,050	2,480	121	99	82	90
29	478	160	2,130	1,810	-----	248	2,250	1,910	127	91	76	109
30	301	116	1,920	1,540	-----	228	1,600	678	128	90	92	331
31	1,310	-----	1,730	657	-----	1,500	-----	255	-----	94	101	-----
TOTAL	8,892	29,872	89,138	26,389	26,827	29,602	52,051	45,812	10,966	6,191	4,858	7,618
MEAN	287	996	2,875	851	958	955	1,735	1,478	366	200	157	254
MAX	1,940	3,550	4,570	2,760	3,890	3,680	4,640	3,950	1,890	893	893	938
MIN	61	95	83	203	157	179	202	232	121	90	76	67
AC-FT	17,640	59,250	176,800	52,340	53,210	58,720	103,200	90,870	21,750			

ST. FRANCIS RIVER BASIN

07047600 Tyronza River near Tyronza, Ark.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	76	2,000	422	458	173	156	391	3,180	155	93	1,230
2	183	73	732	442	285	169	200	412	3,480	160	93	992
3	109	73	292	461	255	164	241	432	3,470	160	143	1,420
4	158	124	751	481	238	163	200	450	3,280	151	441	1,840
5	283	262	1,180	501	215	164	169	472	2,660	150	438	1,290
6	205	232	631	522	207	167	152	490	2,220	162	222	463
7	222	125	249	545	210	164	145	487	3,860	164	128	186
8	331	86	148	569	209	166	241	483	4,340	162	111	143
9	214	75	120	592	207	161	279	480	4,450	162	196	131
10	119	67	109	614	203	160	214	449	4,460	167	212	127
11	92	61	107	639	203	268	176	474	4,370	254	199	126
12	85	59	106	662	200	469	723	469	4,020	261	292	127
13	124	50	106	684	198	362	646	467	3,000	167	344	121
14	248	59	109	712	205	220	320	463	1,570	135	514	117
15	183	64	106	739	230	174	304	460	707	140	1,060	136
16	110	71	100	769	436	163	218	422	1,260	145	1,290	121
17	88	75	100	801	623	162	93	387	898	136	1,110	110
18	82	92	100	829	447	157	41	351	368	121	968	115
19	78	96	110	859	1,280	151	4.0	318	228	110	1,680	116
20	77	287	258	886	1,520	157	0	285	189	102	1,520	106
21	75	1,020	310	918	1,060	220	212	252	163	106	718	198
22	71	1,040	251	950	2,350	237	3,220	305	153	106	256	200
23	71	529	238	980	2,230	232	3,570	698	157	626	162	138
24	71	1,520	258	1,020	1,060	186	3,750	594	177	1,470	141	99
25	69	2,080	279	1,040	344	161	3,840	270	179	1,150	126	93
26	68	2,640	299	1,080	215	152	3,800	344	155	762	152	95
27	68	3,270	318	1,110	187	152	3,510	452	157	276	162	94
28	68	3,460	340	1,140	174	163	2,450	232	158	158	223	138
29	69	3,530	359	1,180	-----	166	1,040	135	156	119	198	515
30	67	3,280	382	1,210	-----	163	384	107	153	99	524	631
31	73	-----	402	1,110	-----	156	-----	843	-----	92	1,140	-----
TOTAL	4,115	24,476	10,850	24,467	15,449	5,922	30,298.0	12,874	53,618	8,128	14,856	11,218
MEAN	133	816	350	789	552	191	1,010	415	1,787	262	479	374
MAX	350	3,530	2,000	1,210	2,350	469	3,840	843	4,460	1,470	1,680	1,840
MIN	67	50	100	422	174	151	0	107	153	92	93	93
AC-FT	8,160	48,550	21,520	48,530	30,640	11,750	60,100	25,540	106,400	16,120	29,470	22,250
CAL YR 1973	TOTAL 249,755.0		MEAN 684		MAX 4,640		MIN 50		AC-FT 495,400			
WTR YR 1974	TOTAL 216,271.0		MEAN 593		MAX 4,460		MIN 0		AC-FT 429,000			

07047800 St. Francis River at Parkin, Ark.

LOCATION.--Lat 35°16'23", long 90°33'33", in NE¼SE¼ sec.33, T.8 N., R.5 E., Cross County, at bridge on U.S. Highway 64 at Parkin, 1.1 mi (1.8 km) downstream from Tyronza River, and at mile 102.0 (164.1 km).

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 mi² (16,770 km²).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1930 to date in reports of Mississippi River Commission. Gage-height records since December 1892 in reports of Mississippi River Commission and National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 175.30 ft (53.431 m) above mean sea level. Prior to Sept. 10, 1948, nonrecording gage, and Sept. 11, 1948 to Apr. 24, 1968, water-stage recorder, at site 1.8 mi (2.9 km) downstream at present datum.

AVERAGE DISCHARGE.--44 years, 2,828 ft³/s (80.1 m³/s), 2,049,000 acre-ft/yr (2,526 hm³/yr).

EXTREMES.--Water year 1973: Maximum discharge, 15,800 ft³/s (447 m³/s) Apr. 25; maximum gage height, 27.36 ft (8.339 m) Apr. 24; minimum daily discharge, 422 ft³/s (12.0 m³/s) Oct. 17.

Water year 1974: Maximum discharge, 12,400 ft³/s (351 m³/s) Apr. 24; maximum gage height, 22.42 ft (6.834 m) Jan. 13; minimum daily discharge, 438 ft³/s (12.4 m³/s) Oct. 30.

Period of record: Maximum discharge, 25,300 ft³/s (716 m³/s) Jan. 31, 1930; maximum gage height, 34.2 ft (10.42 m) Feb. 4-6, 1937, backwater from Mississippi River; minimum discharge, 174 ft³/s (4.93 m³/s) Nov. 12, 1954.

Maximum stage since at least 1892, 41.6 ft (12.68 m) Apr. 4-6, 1897 (not comparable to stages since 1930 due to levee construction).

REMARKS.--The greater part of St. Francis River floodflow is diverted through St. Francis River floodway at lock and dam about 4.0 mi (6.4 km) northwest of Marked Tree, and is not included in records for this station. Diverted flow is included in records for St. Francis Bay at Riverfront and returns to the St. Francis River below Marianna (see station 07047900). Some regulation by Wappapello Lake (Missouri), 207 mi (330 km) upstream since Apr. 1, 1941, capacity, 625,000 acre-ft (771 hm³). Stage-discharge relation affected by backwater during high stages of Mississippi River.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,220	5,240	2,980	4,430	5,590	3,220	5,970	10,400	4,190	2,810	1,740	1,310
2	2,980	6,390	2,670	4,250	5,380	3,210	5,770	11,800	3,580	2,750	1,850	1,270
3	2,350	6,600	2,490	4,160	5,080	3,230	5,180	12,800	3,190	2,700	1,960	1,220
4	1,770	6,140	2,410	4,490	4,600	3,290	4,600	12,700	3,170	2,710	1,890	1,050
5	1,370	5,190	2,490	4,790	4,070	3,300	4,160	12,700	3,170	2,870	1,820	924
6	1,200	4,300	2,830	4,880	3,680	3,220	3,840	12,600	3,100	3,090	1,780	1,290
7	1,120	6,380	3,060	4,630	4,520	3,600	3,570	12,900	3,140	2,950	1,760	3,590
8	1,060	8,160	4,290	4,290	7,650	3,850	3,380	13,100	3,210	2,830	1,770	5,470
9	1,020	8,610	8,210	4,040	9,560	3,870	3,220	12,300	3,280	2,810	1,690	5,670
10	987	8,350	9,900	3,870	10,100	4,140	3,320	11,500	3,370	2,800	1,630	5,100
11	968	7,590	10,200	3,720	10,200	8,300	3,260	10,500	3,410	2,800	1,570	4,060
12	919	6,540	10,200	3,570	9,620	10,300	3,150	9,280	3,530	3,150	1,520	3,050
13	851	5,570	10,400	3,410	8,960	10,200	2,990	8,060	3,930	3,500	1,510	2,570
14	775	5,100	10,200	3,260	8,480	9,600	2,840	7,000	4,230	3,280	1,820	2,310
15	691	4,800	10,000	3,160	7,960	8,770	2,720	6,520	4,740	2,950	2,570	2,060
16	551	4,380	9,510	3,470	7,110	8,190	3,410	6,130	4,630	2,800	2,770	1,840
17	422	3,790	8,620	3,690	5,920	7,720	4,040	5,750	4,120	2,740	2,380	1,590
18	426	3,310	7,400	3,500	4,740	7,000	5,050	5,450	3,570	2,690	2,020	1,200
19	438	3,490	6,300	3,320	3,750	5,970	7,850	5,170	3,230	2,630	1,840	948
20	455	3,870	5,420	3,380	3,470	4,850	12,100	4,870	2,970	2,640	1,780	1,040
21	897	4,000	4,920	5,020	3,310	4,160	13,100	4,570	2,780	3,030	1,740	823
22	1,140	3,740	4,950	7,310	3,240	4,050	13,600	4,300	2,670	3,070	1,700	692
23	1,200	3,320	4,970	8,010	3,180	4,100	14,700	4,130	2,620	2,880	1,680	689
24	1,280	3,010	4,910	7,730	3,130	4,270	15,300	4,420	2,610	2,530	1,650	686
25	1,540	3,150	4,790	6,700	3,280	4,790	15,800	4,600	2,650	2,210	1,580	679
26	1,780	3,820	4,690	5,560	3,410	4,960	14,600	4,730	2,590	2,100	1,520	669
27	2,130	4,140	4,590	5,020	3,460	4,990	13,600	5,000	2,630	2,120	1,480	652
28	2,580	3,920	4,510	5,390	3,320	5,040	13,200	5,580	2,740	2,000	1,390	656
29	2,750	3,480	4,420	6,100	-----	5,030	12,600	5,930	2,720	1,880	1,330	820
30	2,850	3,280	4,400	6,210	-----	4,970	11,900	5,830	2,780	1,800	1,290	880
31	3,940	-----	4,510	5,930	-----	5,640	-----	4,920	-----	1,760	1,290	-----
TOTAL	45,660	149,660	181,240	147,290	156,770	167,830	228,820	245,540	98,550	82,880	54,320	54,808
MEAN	1,473	4,989	5,846	4,751	5,599	5,414	7,627	7,921	3,285	2,674	1,752	1,827
MAX	3,940	8,610	10,400	8,010	10,200	10,300	15,800	13,100	4,740	3,500	2,770	5,670
MIN	422	3,010	2,410	3,160	3,130	3,210	2,720	4,130	2,590	1,760	1,290	652
AC-FT	90,570	296,900	359,500	292,100	311,000	332,900	453,900	487,000	195,500	164,400	107,700	108,700
CAL YR 1972	TOTAL	795,170	MEAN	2,173	MAX	10,400	MIN	346	AC-FT	1,577,000		
WTR YR 1973	TOTAL	1,613,368	MEAN	4,420	MAX	15,800	MIN	422	AC-FT	3,200,000		

ST. FRANCIS RIVER BASIN

07047800 St. Francis River at Parkin, Ark.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	976	464	9,460	4,200	4,710	2,700	2,240	6,160	5,420	2,510	1,560	3,920
2	872	464	8,320	3,260	3,890	2,720	2,180	4,790	7,350	2,490	1,480	4,100
3	696	467	6,920	3,190	3,270	2,740	2,100	3,950	7,430	2,470	1,420	4,300
4	612	538	6,090	3,220	3,040	2,720	1,920	3,430	7,110	2,500	1,430	4,590
5	713	1,300	5,870	3,150	3,060	2,640	1,680	3,810	6,910	2,970	1,800	4,670
6	843	1,610	5,680	3,020	3,030	2,570	1,500	4,380	7,030	2,770	2,060	4,190
7	1,090	1,290	5,390	2,890	2,970	2,530	1,420	4,200	10,700	2,700	1,960	3,210
8	1,510	904	4,750	2,860	2,920	2,500	1,580	3,770	12,100	2,540	1,760	2,420
9	1,400	702	4,370	4,130	2,860	2,470	1,630	3,550	12,000	2,440	1,620	1,990
10	1,010	605	4,490	6,770	2,780	2,490	1,700	3,390	11,600	2,390	1,560	1,780
11	746	542	4,590	9,810	2,650	3,000	1,760	3,250	11,100	2,250	1,480	1,650
12	612	505	4,610	10,400	2,520	3,660	3,190	3,370	10,500	2,220	1,460	1,540
13	592	479	4,530	10,200	2,670	3,760	3,880	3,690	10,300	2,220	1,570	1,530
14	760	470	4,330	9,950	3,180	3,400	3,450	3,730	9,220	2,160	1,680	1,530
15	912	467	4,010	9,570	3,590	2,960	2,860	4,570	7,890	2,090	2,220	1,540
16	816	470	3,570	9,060	3,710	2,670	2,690	5,420	7,060	2,050	3,250	1,550
17	659	479	3,050	8,320	3,690	2,500	2,730	4,600	6,390	1,970	3,970	1,240
18	562	565	2,750	7,210	3,520	2,410	2,740	3,820	5,740	1,890	4,000	996
19	525	810	2,860	5,930	4,070	2,380	2,790	3,260	5,260	1,780	4,000	928
20	505	956	3,060	4,870	4,350	2,330	2,860	3,000	4,760	1,700	4,460	892
21	496	2,360	3,000	4,360	4,320	2,360	3,270	2,840	4,290	1,650	4,590	868
22	482	3,360	2,900	4,050	5,090	2,420	8,620	3,040	3,840	1,590	4,080	900
23	482	3,240	3,040	3,750	5,470	2,610	11,700	3,920	3,480	1,600	3,300	860
24	487	4,780	3,490	3,620	5,210	2,730	12,300	4,100	3,090	2,520	2,640	810
25	470	6,660	5,990	3,550	4,220	2,840	12,100	3,740	2,770	3,330	2,200	766
26	455	8,210	7,960	3,570	3,210	2,930	11,700	3,220	2,560	3,530	1,880	726
27	464	9,840	8,920	3,770	2,830	2,830	11,300	3,180	2,410	3,320	1,720	686
28	464	10,500	8,930	4,700	2,730	2,720	10,600	3,180	2,420	2,590	1,640	656
29	444	10,500	8,360	5,760	-----	2,620	9,460	2,890	2,530	2,100	1,670	749
30	438	10,100	7,130	5,920	-----	2,490	7,840	2,720	2,540	1,820	2,320	1,090
31	455	-----	5,600	5,510	-----	2,350	-----	2,860	-----	1,670	3,370	-----
TOTAL	21,548	83,637	164,020	170,570	99,560	84,050	145,790	115,830	195,800	71,830	74,150	56,677
MEAN	695	2,788	5,291	5,502	3,556	2,711	4,860	3,736	6,527	2,317	2,392	1,889
MAX	1,510	10,500	9,460	10,400	5,470	3,760	12,300	6,160	12,100	3,530	4,590	4,670
MIN	438	464	2,750	2,860	2,520	2,330	1,420	2,720	2,410	1,590	1,420	656
AC-FT	42,740	165,900	325,300	338,300	197,500	166,700	289,200	229,700	368,400	142,500	147,100	112,400
CAL YR 1973	TOTAL	1,506,013	MEAN	4,126	MAX	15,800	MIN	438	AC-FT	2,987,000		
WTR YR 1974	TOTAL	1,283,462	MEAN	3,516	MAX	12,300	MIN	438	AC-FT	2,546,000		

07047900 St. Francis Bay at Riverfront, Ark.

07047902 St. Francis River at latitude of Wittsburg, Ark.

NOTE.--Records for 1973 and 1974 water years for the stations listed above are not available in time for inclusion in this report. They will be published in a subsequent report.

07047942 L'Anguille River near Colt, Ark.

LOCATION.--Lat 35°08'40", long 90°52'42", in NE¼NW¼ sec.15, T.6 N., R.2 E., St. Francis County, near center of span on downstream side of bridge on State Highway 306, 1.1 mi (1.8 km) downstream from Lick Creek, 3.9 mi (6.3 km) northwest of Colt, and at mile 52.8 (85.0 km).

DRAINAGE AREA.--535 mi² (1,386 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 192.52 ft (58.680 m) above mean sea level. Auxiliary water-stage recorder 5.8 mi (9.3 km) upstream.

EXTREMES.--Current year: Maximum discharge, 10,800 ft³/s (306 m³/s) June 8, gage height, 15.61 ft (4.758 m), from rating curve extended as explained below; minimum, 7.3 ft³/s (0.21 m³/s) Oct. 29, gage height, 1.34 ft (0.408 m).

Period of record: Maximum discharge, 11,400 ft³/s (323 m³/s) Apr. 23, 1973, gage height, 15.75 ft (4.801 m), from rating curve extended above 4,300 ft³/s (122 m³/s); minimum daily, 1.0 ft³/s (0.028 m³/s) Oct. 27, 1971.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	518	33	3,900	1,600	2,280	1,340	107	2,180	599	242	162	894
2	457	24	3,600	1,400	1,880	1,190	100	1,980	623	198	153	980
3	393	21	3,150	1,260	1,550	1,040	86	1,900	996	150	146	1,090
4	333	26	3,250	1,240	1,330	919	74	1,620	1,560	108	139	1,170
5	301	112	3,050	1,240	1,160	825	64	1,540	1,620	88	121	1,300
6	223	128	2,880	1,040	1,020	753	56	1,300	1,590	78	106	1,410
7	183	152	2,700	840	894	680	47	1,060	6,440	72	97	1,410
8	205	178	2,370	738	799	613	95	902	10,400	74	94	1,330
9	132	196	2,000	962	730	552	122	816	9,670	74	100	1,230
10	73	193	1,680	2,160	664	484	148	732	7,290	73	102	1,110
11	49	175	1,440	5,430	602	584	159	653	5,520	71	102	995
12	31	151	1,280	5,280	548	621	684	587	4,470	68	144	890
13	25	124	1,120	4,740	478	544	722	513	3,780	66	347	790
14	45	93	985	4,130	492	558	714	432	3,200	62	285	710
15	36	66	874	3,850	604	564	786	858	2,660	65	380	630
16	33	48	783	3,600	730	551	786	1,300	2,700	71	501	560
17	40	37	712	3,230	946	528	781	1,280	2,300	75	597	490
18	50	78	642	2,730	1,100	505	771	1,220	2,190	76	721	430
19	52	187	588	2,320	1,620	481	752	1,030	1,900	73	794	370
20	46	169	589	2,040	1,600	448	730	755	1,500	71	847	330
21	37	525	541	1,850	1,760	435	735	668	1,270	65	866	280
22	28	483	494	1,560	2,600	400	3,410	582	1,110	57	826	240
23	24	478	486	1,390	2,300	352	5,100	499	1,120	57	774	217
24	20	1,380	590	1,230	2,270	309	4,970	410	850	58	726	190
25	14	2,410	1,070	1,090	2,280	268	4,400	321	714	59	682	170
26	12	3,800	1,190	980	1,950	236	4,260	236	630	147	646	154
27	9.8	5,070	1,810	930	1,690	212	4,000	162	566	154	660	132
28	8.3	5,160	2,090	1,690	1,490	198	3,600	108	494	130	630	116
29	7.5	4,620	2,160	2,460	-----	174	3,100	100	410	135	692	107
30	7.7	4,230	2,040	2,620	-----	147	2,610	107	326	150	930	100
31	17	-----	1,820	2,600	-----	122	-----	188	-----	160	878	-----
TOTAL	3,410.3	30,347	51,884	68,230	37,367	16,633	43,969	26,039	78,498	3,027	14,248	19,825
MEAN	110	1,012	1,674	2,201	1,335	537	1,466	840	2,617	97.6	460	661
MAX	518	5,160	3,900	5,430	2,600	1,340	5,100	2,180	10,400	242	930	1,410
MIN	7.5	21	486	738	478	122	47	100	326	57	94	100
CFSM	.21	1.89	3.13	4.11	2.50	1.00	2.74	1.57	4.89	.18	.86	1.24
IN.	.24	2.11	3.61	4.74	2.60	1.16	3.06	1.81	5.46	.21	.99	1.38
AC-FT	6,760	60,190	102,900	135,300	74,120	32,990	87,210	51,650	155,700	6,000	28,260	39,320
CAL YR 1973	TOTAL	421,362.3	MEAN	1,154	MAX	9,880	MIN	7.5	CFSM	2.16	IN	29.30
WTR YR 1974	TOTAL	393,477.3	MEAN	1,078	MAX	10,400	MIN	7.5	CFSM	2.02	IN	27.36
										AC-FT	835,800	
										AC-FT	780,500	

07047950 L'Anguille River at Palestine, Ark.

NOTE.--Records for 1973 and 1974 water years for the station listed above are not available in time for inclusion in this report. They will be published in a subsequent report.

07047970 Mississippi River at Helena, Ark.

LOCATION.--Lat 34°31'26", long 90°35'02", Phillips County, on right bank at railroad ferry landing at Helena, 10.0 mi (16.1 km) downstream from St. Francis River, and at mile 666.3 (1,072.1 km), 1962 adjustment.

DRAINAGE AREA.--941,700 mi² (2,439,000 km²), approximately.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. Gage-height records since 1871 are contained in reports of Mississippi River Commission and National Weather Service. Intermittent records of discharge since 1879 and daily discharge since January 1928, in reports of Mississippi River Commission.

GAGE.--Nonrecording gage. Datum of gage is 141.70 ft (43.190 m) above mean sea level, supplementary adjustment of 1958.

AVERAGE DISCHARGE.--46 years, 482,100 ft³/s (13,700 m³/s), 349,300,000 acre-ft/yr (431 km³/yr).

EXTREMES.--Water year 1973: Maximum discharge, 1,630,000 ft³/s (46,200 m³/s) Apr. 6; maximum gage height, 50.18 ft (15.295 m) May 10; minimum daily discharge, 214,000 ft³/s (6,060 m³/s) Sept. 29.
Water year 1974: Maximum daily discharge, 1,500,000 ft³/s (42,500 m³/s) Feb. 8; maximum gage height, 44.00 ft (13.411 m) Feb. 7, 8; minimum daily discharge, 229,000 ft³/s (6,490 m³/s) Oct. 1.
Period of record: Maximum discharge, 1,968,000 ft³/s (55,700 m³/s) Feb. 12, 1937; maximum gage height, 60.21 ft (18.352 m) Feb. 12-14, 1937; minimum discharge, 81,000 ft³/s (2,290 m³/s) Aug. 26, 1936. A discharge of 2,041,000 ft³/s (57,800 m³/s) was observed Apr. 23, 1912.
Maximum stage since at least 1828, that of Feb. 12-14, 1937.

REMARKS.--Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	347	387	850	996	941	570	1,540	1,540	1,000	601	554	282
2	359	404	833	1,000	937	542	1,560	1,580	998	572	540	277
3	377	420	816	1,010	931	521	1,570	1,560	996	561	520	273
4	402	436	803	1,020	921	504	1,580	1,540	995	557	489	273
5	422	465	795	1,040	914	497	1,600	1,540	994	551	461	269
6	426	508	793	1,040	908	500	1,620	1,550	996	538	441	259
7	433	578	785	1,050	911	509	1,610	1,560	997	520	412	258
8	440	629	781	1,050	934	518	1,600	1,560	997	494	384	262
9	443	659	798	1,040	951	541	1,590	1,580	1,000	476	365	265
10	440	685	812	1,030	968	601	1,570	1,590	1,000	480	352	265
11	429	701	827	1,020	987	708	1,550	1,590	1,000	493	340	263
12	415	705	860	1,010	1,000	796	1,530	1,580	1,000	495	328	260
13	410	713	909	988	1,020	876	1,510	1,570	997	476	320	256
14	408	725	956	957	1,040	944	1,500	1,560	994	452	324	259
15	405	739	995	919	1,050	1,000	1,500	1,520	988	432	332	264
16	392	764	1,030	855	1,050	1,060	1,490	1,480	974	418	343	260
17	376	790	1,050	786	1,030	1,090	1,490	1,460	952	406	363	252
18	364	826	1,080	713	1,020	1,110	1,450	1,450	922	394	382	249
19	355	859	1,100	639	1,010	1,140	1,430	1,410	876	381	389	245
20	348	881	1,120	585	998	1,160	1,430	1,380	829	370	389	238
21	343	890	1,140	571	989	1,190	1,430	1,340	793	364	390	234
22	345	895	1,140	594	974	1,220	1,420	1,300	767	354	386	232
23	346	899	1,150	635	949	1,260	1,420	1,280	750	347	371	225
24	348	898	1,150	711	910	1,310	1,420	1,250	739	346	355	218
25	352	898	1,150	784	845	1,350	1,460	1,210	739	350	342	217
26	353	896	1,150	839	773	1,390	1,490	1,170	742	368	331	218
27	352	892	1,150	885	691	1,420	1,500	1,130	740	420	322	216
28	353	884	1,140	919	616	1,440	1,500	1,090	724	482	313	215
29	355	875	1,130	938	-----	1,450	1,500	1,050	689	533	299	214
30	360	863	1,110	944	-----	1,480	1,510	1,020	640	554	291	218
31	373	-----	1,090	943	-----	1,510	-----	1,010	-----	560	286	-----
TOTAL	11,871	21,764	30,493	27,511	26,268	30,207	45,370	43,450	26,828	14,345	11,714	7,436
MEAN	383	725	984	887	938	974	1,512	1,402	894	463	378	248
MAX	443	899	1,150	1,050	1,050	1,510	1,620	1,590	1,000	601	554	282
MIN	343	387	781	571	616	497	1,420	1,010	640	346	286	214

CAL YR 1972	TOTAL 219,505	MEAN 600	MAX 1,150	MIN 265.0	AC-FT 435,400
WTR YR 1973	TOTAL 297,257	MEAN 814	MAX 1,620	MIN 214.0	AC-FT 589,600

07047970 Mississippi River at Helena, Ark.--Continued

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	392	840	830	1,400	973	977	730	1,140	713	269	293
2	260	385	885	854	1,410	966	956	694	1,110	741	268	325
3	309	390	941	876	1,430	944	916	659	1,080	748	265	354
4	352	407	972	901	1,450	920	866	635	1,060	748	262	371
5	394	431	1,020	925	1,460	891	813	614	1,030	748	257	382
6	446	438	1,040	945	1,470	850	802	602	1,000	750	255	397
7	482	439	1,060	950	1,490	809	809	593	1,020	722	255	431
8	521	435	1,070	955	1,500	762	830	595	1,040	697	253	445
9	540	423	1,080	977	1,480	730	855	606	1,060	673	253	450
10	550	407	1,080	996	1,460	716	867	614	1,090	636	254	462
11	567	387	1,090	1,040	1,440	732	886	611	1,100	613	254	464
12	554	371	1,090	1,070	1,410	759	904	612	1,110	570	255	481
13	543	357	1,080	1,090	1,380	784	902	606	1,120	518	262	490
14	491	350	1,050	1,100	1,350	804	939	606	1,130	503	272	486
15	463	348	994	1,110	1,310	824	956	606	1,130	470	293	480
16	429	344	927	1,130	1,250	858	965	607	1,140	452	314	486
17	409	339	812	1,140	1,190	881	971	602	1,130	422	333	505
18	421	333	754	1,160	1,110	902	976	618	1,110	398	342	536
19	447	329	651	1,180	1,030	929	982	635	1,100	371	338	564
20	457	333	588	1,200	948	950	972	681	1,060	354	321	588
21	464	336	537	1,220	894	976	965	731	1,010	352	308	540
22	467	342	522	1,240	873	999	965	772	943	353	303	479
23	475	349	502	1,260	870	1,020	964	802	877	338	299	415
24	481	355	493	1,270	889	1,020	938	820	815	327	293	360
25	486	369	484	1,290	912	1,040	899	889	766	321	285	314
26	483	390	493	1,300	932	1,050	866	969	731	312	277	278
27	478	469	504	1,320	950	1,040	840	1,060	696	303	274	256
28	465	588	546	1,340	964	1,030	809	1,130	677	293	272	262
29	450	667	612	1,350	-----	1,020	777	1,220	672	280	271	268
30	433	750	721	1,370	-----	1,000	748	1,180	692	275	272	266
31	413	-----	840	1,380	-----	993	-----	1,150	-----	70	278	-----
TOTAL	13,959	12,253	25,278	34,769	34,252	28,172	26,915	23,249	29,639	2,271	8,707	12,428
MEAN	450	408	815	1,122	1,223	909	897	750	988	493	281	414
MAX	567	750	1,090	1,380	1,500	1,050	982	1,220	1,140	750	342	588
MIN	229	329	484	830	870	716	748	593	672	270	253	256
AC-FT	27,690	24,300	50,140	68,960	67,940	55,880	53,390	46,110	58,790	30,290	17,270	24,650
CAL YR 1973	TOTAL	284,619	MEAN	780	MAX	1,500	MIN	229.0	AC-FT	564,500		
WTR YR 1974	TOTAL	264,892	MEAN	726	MAX	1,500	MIN	229.0	AC-FT	525,400		

WHITE RIVER BASIN

07048000 West Fork White River at Greenland, Ark.

LOCATION.--Lat 35°58'50", long 94°10'25", in NW¼NW¼ sec.16, T.15 N., R.30 W., Washington County, near left bank on downstream side of highway bridge, 800 ft (244 m) upstream from bridge on U.S. Highway 71, 1.0 mi (1.6 km) south of Greenland, 5.5 mi (8.8 km) upstream from small tributary, and at mile 10.5 (16.9 km).

DRAINAGE AREA.--83.1 mi² (215.2 km²).

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,233.00 ft (375.818 m) above mean sea level. Prior to Oct. 20, 1945, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--29 years, 111 ft³/s (3.14 m³/s), 18.16 in/yr (461 mm/yr), 80,420 acre-ft/yr (99.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 33,300 ft³/s (943 m³/s) Nov. 24, gage height, 14.30 ft (4.359 m), from rating curve extended as explained below; no flow Aug. 4-9.

Period of record: Maximum discharge, 34,700 ft³/s (983 m³/s) May 6, 1960, gage height, 14.50 ft (4.420 m), in gage well; 13.60 ft (4.145 m), from floodmarks, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of contracted-opening measurement of peak flow; no flow at times in 1947-48, 1953-54, 1956, 1963-64, 1969-70, 1972, 1974.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1711: 1957. WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	54	150	97	80	105	68	560	135	6.5	4.0	236
2	30	43	127	97	80	95	61	1,230	64	6.0	2.0	798
3	26	37	655	95	70	85	347	534	39	5.7	1.0	264
4	23	30	2,400	82	61	75	189	338	26	9.4	0	117
5	19	26	625	54	57	68	140	241	131	7.8	0	79
6	21	25	356	52	52	65	117	179	206	6.4	0	52
7	21	20	240	48	48	59	107	144	1,850	5.2	0	37
8	19	18	183	45	45	54	97	119	573	4.5	0	28
9	19	16	147	43	43	48	82	101	3,060	3.8	0	23
10	18	13	122	57	39	94	72	82	571	3.6	1.4	20
11	41	12	105	63	36	1,320	236	65	449	3.0	3.3	134
12	92	12	92	54	34	450	361	52	573	2.7	6.7	108
13	438	10	77	48	32	280	215	40	266	2.4	6.2	99
14	125	11	68	48	31	211	166	38	170	2.2	5.8	84
15	78	9.3	63	48	152	236	135	34	121	2.0	6.2	58
16	57	8.2	54	45	308	236	117	27	97	1.9	6.3	56
17	44	10	46	43	154	174	100	23	68	1.8	5.8	54
18	36	7.8	41	43	166	152	147	19	69	1.7	13	45
19	27	7.7	500	43	356	152	177	16	59	1.6	13	66
20	23	244	397	41	211	158	137	14	39	1.5	10	3,950
21	21	137	236	39	435	361	2,040	13	28	1.4	9.1	688
22	18	61	186	36	620	268	1,690	12	21	1.3	8.9	338
23	17	1,350	222	34	361	222	570	11	16	1.3	8.1	193
24	15	12,400	1,260	32	244	177	353	9.9	13	1.2	7.6	152
25	14	2,480	475	29	180	152	249	11	11	1.5	7.2	332
26	14	2,280	292	39	152	135	192	40	9.9	2.2	7.0	253
27	29	677	204	75	135	120	157	28	8.6	1.5	7.1	171
28	22	383	161	102	120	110	131	18	8.0	1.2	9.0	130
29	19	252	135	107	-----	97	113	14	7.5	1.0	8.7	106
30	17	186	117	97	-----	85	1,220	11	7.2	8.0	8.0	80
31	55	-----	105	90	-----	75	-----	650	-----	6.0	7.5	-----
TOTAL	1,434	20,820.0	9,841	1,826	4,306	5,919	9,786	4,673.9	8,696.2	93.70	166.60	8,751
MEAN	46.3	694	317	58.9	154	191	326	151	290	3.02	5.37	292
MAX	438	12,400	2,400	107	620	1,320	2,040	1,230	3,060	9.4	13	3,950
MIN	14	7.7	41	29	31	48	61	9.9	7.2	6.0	0	20
CFSM	56	8.35	3.81	71	1.85	2.30	3.92	1.82	3.49	0.4	0.6	3.51
1N	64	9.32	4.41	82	1.93	2.65	4.38	2.09	3.89	0.4	0.7	3.92
AC-FT	2,840	41,300	19,520	3,620	8,540	11,740	19,410	9,270	17,250	186	330	17,360

CAL YR 1973	TOTAL	97,678.95	MEAN	268	MAX	12,400	MIN	0	CFSM	3.23	1N	43.73	AC-FT	193,700
WTR YR 1974	TOTAL	76,313.40	MEAN	209	MAX	12,400	MIN	0	CFSM	2.52	1N	34.16	AC-FT	151,400

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-24	1945	14.30	33,300	5-31	0530	6.18	3,970
12-4	0030	7.31	5,530	6-9	0600	10.01	9,930
12-24	0200	5.32	3,000	9-20	0245	9.19	8,400

07048600 White River near Fayetteville, Ark.

LOCATION.--Lat 36°04'23", long 94°04'51", in NE¼SW¼ sec.8, T.16 N., R.29 W., Washington County, on left bank at downstream side of bridge on county road, 0.6 mi (1.0 km) downstream from West Fork White River, 0.8 mi (1.3 km) downstream from Lake Sequoyah Dam on White River, 4.3 mi (6.9 km) east of Fayetteville, and at mile 684.0 (1,100.6 km).

DRAINAGE AREA.--400 mi² (1,036 km²).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,138.25 ft (346.939 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 553 ft³/s (15.7 m³/s), 18.96 in/yr (482 mm/yr), 400,600 acre-ft/yr (494 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 46,400 ft³/s (1,310 m³/s) Nov. 25, gage height, 30.29 ft (9.232 m), from rating curve extended as explained below; minimum, 1.3 ft³/s (0.037 m³/s) Aug. 5, 6, gage height, 0.95 ft (0.290 m).

Period of record: Maximum discharge, 46,400 ft³/s (1,310 m³/s) Nov. 25, 1963, gage height, 30.29 ft (9.232 m), from rating curve extended above 30,900 ft³/s (875 m³/s); minimum, 1.2 ft³/s (0.034 m³/s) Sept. 29, 30, 1969.

REVISIONS.--Figures of maximum discharge for the water years 1966, and 1972, have been revised to 30,200 ft³/s (855 m³/s) Feb. 9, 1966, gage height, 24.92 ft (7.596 m), and 30,400 ft³/s (861 m³/s) Dec. 10, 1971, gage height, 25.00 ft (7.620 m), superseding figures published in WRD Ark. 1966 and 1972.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	204	902	970	565	617	365	3,920	337	59	1.4	708
2	62	121	745	545	505	549	344	4,980	238	57	1.9	3,840
3	49	101	725	418	442	513	1,060	2,960	255	53	2.1	2,360
4	54	87	7,930	400	410	488	948	1,860	790	53	1.8	924
5	43	80	3,960	351	400	470	605	1,340	5,200	51	1.8	605
6	61	73	2,070	344	372	452	498	1,040	6,350	43	1.8	425
7	70	66	1,350	334	344	418	447	853	15,500	39	4.7	322
8	45	61	1,080	334	324	400	435	705	5,400	38	6.1	268
9	36	55	902	344	292	382	414	657	16,300	97	13	202
10	29	49	768	365	282	407	365	521	3,870	30	55	173
11	97	43	665	372	270	3,650	585	625	2,620	17	27	1,110
12	233	40	545	358	250	2,520	1,600	613	1,940	16	25	2,100
13	2,150	39	470	337	238	1,560	1,250	337	1,300	12	102	1,500
14	697	39	435	324	224	1,230	1,190	470	1,000	11	132	1,150
15	402	25	365	324	279	1,250	880	470	772	15	104	776
16	268	28	348	315	790	1,410	689	318	577	16	83	565
17	198	29	330	303	812	1,040	645	280	491	15	60	488
18	156	20	348	298	621	835	665	248	428	13	111	396
19	127	29	2,870	288	907	830	665	220	358	12	90	331
20	100	804	2,100	272	934	889	645	196	298	12	66	8,620
21	83	974	1,450	265	1,560	1,290	4,800	156	268	6.1	55	4,660
22	70	549	1,180	262	3,250	1,250	4,650	140	200	2.4	52	1,960
23	60	4,290	1,080	238	1,730	1,060	2,450	129	142	1.7	46	1,230
24	53	8,620	3,090	228	1,340	925	2,010	121	116	1.7	49	925
25	42	24,200	2,730	215	1,020	810	1,300	129	102	1.9	58	1,230
26	40	11,300	1,590	262	871	725	948	260	97	3.8	33	1,090
27	147	4,640	1,150	480	737	657	763	280	90	5.6	37	829
28	94	2,100	970	665	645	585	693	225	79	2.4	86	649
29	63	1,400	880	693	-----	537	605	172	72	2.2	47	533
30	52	1,100	790	645	-----	480	4,980	144	64	1.9	39	414
31	430	-----	858	593	-----	418	-----	225	-----	1.7	35	-----
TOTAL	6,082	61,166	44,676	12,142	20,422	26,677	37,494	24,594	65,254	690.4	1,427.1	40,383
MEAN	196	2,039	1,441	392	729	925	1,250	793	2,175	22.3	46.0	1,346
MAX	2,150	24,200	7,930	970	3,250	3,650	4,980	4,980	16,300	97	132	8,620
MIN	29	20	330	215	228	382	344	121	64	1.7	1.8	173
CFSM	.49	5.10	3.60	.98	1.82	2.31	3.13	1.98	5.44	.06	.12	3.37
IN.	.57	5.69	4.15	1.13	1.90	2.67	3.49	2.29	6.07	.06	.13	3.76
AC-FT	12,060	121,300	88,610	24,080	40,510	56,880	74,370	48,780	124,400	1,370	2,830	80,100
CAL YR 1973	TOTAL 436,361.2	MEAN 1,196	MAX 24,200	MIN 2.4	CFSM 2.99	IN 40.58	AC-FT 865,500					
WTR YR 1974	TOTAL 343,007.5	MEAN 940	MAX 24,200	MIN 1.7	CFSM 2.35	IN 31.90	AC-FT 680,400					

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-25	0500	30.29	46,400	6-9	1200	23.11	25,900
12-4	1400	16.10	12,200	9-20	1000	15.79	11,700

WHITE RIVER BASIN

07049690 Beaver Lake near Eureka Springs, Ark.

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10. T.20 N., R.27 W., Carroll County, at dam on White River, 6.0 mi (9.7 km) west of Eureka Springs, and at mile 609.0 (979.9 km).

DRAINAGE AREA.--1,192 mi² (3,087 km²).

PERIOD OF RECORD.--December 1963 to current year. Prior to October 1969, published as Beaver Reservoir near Eureka Springs.

GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 1,957,000 acre-ft (2,413 hm³) June 10, elevation, 1,130.16 ft (344.473 m); minimum, 1,537,000 acre-ft (1,895 hm³) Aug. 31, elevation, 1,115.84 ft (340.108 m).

Period of record: Maximum contents, 1,957,000 acre-ft (2,413 hm³) June 10, 1974, elevation, 1,130.16 ft (344.473 m); minimum since bottom of power pool was first reached, 772,800 acre-ft (953 hm³) Dec. 6-8, 1965, elevation, 1,079.90 ft (329.154 m).

REMARKS.--Lake is formed by a combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began on Dec. 26, 1963, and bottom of power pool was first reached May 13, 1965. Capacity between elevations, 1,120.00 ft (341.376 m) and 1,130.00 ft (344.424 m) is 299,600 acre-ft (369 hm³), and is reserved for flood-control storage. Lake is used for flood-control, power-development, water-supply, and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates and designated flood-control pool.....	1,130.00 (344.424 m)	1,951,500 (2.41 km ³)
Top of designated power pool.....	1,120.00 (341.376 m)	1,651,900 (2.04 km ³)
Crest of gated spillway.....	1,093.00 (333.146 m)	1,007,200 (1.24 km ³)
Bottom of designated power pool.....	1,007.00 (328.270 m)	726,800 (896 hm ³)
Bottom of lowest outlet.....	938.06 (285.921 m)	1,310 (1.62 hm ³)

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1973: Drainage area.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

1,115 (339.9 m)	1,515 (1.87 km ³)	1,125 (342.9 m)	1,798 (2.22 km ³)
1,120 (341.4 m)	1,652 (2.04 km ³)	1,131 (344.7 m)	1,984 (2.45 km ³)

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.558	1.566	1.862	1.835	1.722	1.686	1.730	1.759	1.734	1.809	1.635	1.542
2	1.557	1.565	1.854	1.828	1.723	1.690	1.731	1.771	1.736	1.804	1.630	1.554
3	1.553	1.565	1.856	1.821	1.724	1.692	1.729	1.777	1.734	1.800	1.630	1.565
4	1.553	1.565	1.887	1.815	1.719	1.690	1.723	1.785	1.733	1.799	1.628	1.568
5	1.552	1.565	1.887	1.811	1.716	1.687	1.719	1.790	1.769	1.797	1.621	1.569
6	1.553	1.565	1.879	1.809	1.709	1.684	1.721	1.787	1.804	1.797	1.615	1.570
7	1.554	1.565	1.872	1.803	1.700	1.681	1.723	1.780	1.873	1.796	1.608	1.570
8	1.552	1.565	1.870	1.799	1.693	1.678	1.717	1.772	1.911	1.792	1.600	1.570
9	1.550	1.564	1.867	1.791	1.692	1.680	1.711	1.770	1.956	1.787	1.597	1.570
10	1.547	1.565	1.864	1.782	1.692	1.686	1.704	1.764	1.946	1.781	1.597	1.568
11	1.550	1.565	1.861	1.773	1.688	1.709	1.702	1.765	1.936	1.774	1.597	1.567
12	1.551	1.565	1.860	1.762	1.682	1.718	1.702	1.764	1.929	1.768	1.592	1.570
13	1.561	1.565	1.854	1.760	1.680	1.722	1.705	1.754	1.919	1.767	1.588	1.573
14	1.563	1.565	1.849	1.756	1.671	1.724	1.707	1.754	1.913	1.767	1.586	1.576
15	1.564	1.565	1.844	1.756	1.672	1.728	1.703	1.753	1.905	1.759	1.583	1.579
16	1.564	1.565	1.840	1.756	1.676	1.733	1.697	1.747	1.897	1.752	1.580	1.579
17	1.565	1.565	1.835	1.756	1.679	1.738	1.691	1.742	1.888	1.744	1.579	1.578
18	1.566	1.565	1.830	1.758	1.677	1.739	1.689	1.743	1.880	1.736	1.579	1.576
19	1.566	1.565	1.831	1.759	1.675	1.737	1.686	1.744	1.870	1.726	1.576	1.574
20	1.566	1.572	1.834	1.759	1.673	1.738	1.687	1.738	1.862	1.719	1.573	1.596
21	1.566	1.573	1.834	1.758	1.673	1.735	1.727	1.735	1.852	1.711	1.570	1.616
22	1.564	1.575	1.832	1.755	1.680	1.738	1.748	1.731	1.848	1.702	1.564	1.622
23	1.563	1.586	1.831	1.748	1.689	1.738	1.752	1.728	1.847	1.694	1.560	1.623
24	1.563	1.689	1.851	1.738	1.692	1.741	1.750	1.728	1.840	1.684	1.558	1.622
25	1.563	1.836	1.854	1.734	1.687	1.742	1.749	1.728	1.832	1.677	1.558	1.620
26	1.563	1.874	1.856	1.736	1.684	1.741	1.744	1.733	1.826	1.669	1.552	1.619
27	1.563	1.877	1.856	1.736	1.683	1.740	1.747	1.737	1.820	1.664	1.549	1.614
28	1.563	1.874	1.854	1.733	1.685	1.736	1.750	1.732	1.814	1.662	1.546	1.616
29	1.563	1.872	1.850	1.730	-----	1.734	1.745	1.727	1.813	1.654	1.541	1.618
30	1.563	1.867	1.847	1.728	-----	1.736	1.754	1.721	1.813	1.646	1.538	1.612
31	1.565	-----	1.840	1.723	-----	1.738	-----	1.732	-----	1.641	1.538	-----
MAX	1.566	1.877	1.887	1.835	1.724	1.742	1.754	1.790	1.956	1.809	1.635	1.623
MIN	1.547	1.564	1.830	1.723	1.671	1.678	1.686	1.721	1.733	1.641	1.538	1.542
(†)	1,116.85	1,127.29	1,126.39	1,122.48	1,121.15	1,123.00	1,123.53	1,122.77	1,125.52	1,119.60	1,115.85	1,118.57
(‡)	+7	+302	-27	-117	-38	+53	+16	-22	+81	-172	-103	+74

CAL YR 1973..... ‡ +420

WTR YR 1974..... ‡ +54

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, at Beaver Dam, 6.0 mi (9.7 km) west of Eureka Springs, and at mile 609.0 (979.9 km).

AVERAGE DISCHARGE.--9 years, 1,350 ft³/s (38.2 m³/s), 978,100 acre-ft/yr (1,206 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 13,700 ft³/s (388 m³/s) June 10; minimum daily, 42 ft³/s (1.19 m³/s) May 5.

Period of record: Maximum daily discharge, 25,900 ft³/s (733 m³/s) Apr. 23, 1973; minimum daily, 35 ft³/s (0.99 m³/s) at times in 1966, 1967, 1969, 1970.

REMARKS.--Discharge computed from powerplant records and estimated leakage through wicket gates. Flow completely regulated by Beaver Lake. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	47	4,760	3,210	2,090	1,040	5,020	4,040	48	2,530	2,920	49
2	1,150	51	4,760	4,810	53	54	2,220	4,100	48	2,560	2,770	49
3	1,760	50	5,440	3,840	53	54	2,880	4,080	1,730	2,230	50	103
4	326	49	8,080	4,060	3,960	2,120	4,240	44	1,720	672	50	47
5	48	48	8,820	2,800	2,260	2,360	2,780	42	1,980	1,060	3,310	48
6	48	183	8,060	2,080	3,460	2,870	46	4,660	2,530	50	2,880	47
7	48	48	5,290	3,610	5,430	2,750	47	5,060	4,500	50	4,050	46
8	1,060	52	3,200	3,660	4,510	1,650	4,080	4,910	6,020	2,610	4,250	46
9	1,140	48	3,150	5,080	54	50	4,090	4,940	10,800	2,530	2,180	1,080
10	774	49	3,030	5,160	53	50	4,050	4,960	13,700	3,070	605	1,750
11	48	49	2,700	5,500	3,560	948	3,550	50	8,270	3,220	49	1,400
12	48	54	3,190	6,030	3,400	1,560	3,300	1,950	8,300	2,860	2,340	1,110
13	48	49	3,130	2,350	1,670	2,080	48	6,240	7,650	325	1,880	47
14	48	49	3,170	2,180	4,930	1,640	47	3,780	5,040	45	1,310	47
15	216	489	2,310	941	1,890	1,510	4,070	3,620	5,260	3,860	1,540	47
16	217	48	2,440	1,100	54	776	4,140	4,480	5,220	3,250	2,020	1,100
17	48	48	3,260	873	522	50	4,160	3,590	5,390	636		983
18	47	48	3,080	51	3,020	2,420	2,160	47	5,370	4,680	47	1,560
19	425	48	3,420	54	3,420	3,190	3,830	47	5,570	4,500	1,720	2,680
20	47	49	3,570	56	3,670	2,690	47	4,030	5,130	3,360	2,260	1,260
21	47	50	3,200	1,630	4,100	5,130	48	2,080	5,550	3,320	2,280	47
22	762	49	3,230	2,050	3,750	2,160	3,710	2,100	1,860	4,690	2,100	47
23	1,050	51	3,210	4,670	173	2,120	4,400	2,000	45	3,510	2,350	1,790
24	156	50	3,170	5,030	54	54	4,280	2,020	3,480	4,780	726	1,890
25	47	461	3,760	2,200	4,930	2,300	4,220	47	4,100	3,440	49	2,440
26	48	8,130	3,220	582	4,440	2,790	4,140	50	3,400	3,510	2,950	2,280
27	48	8,170	3,470	53	2,090	2,980	52	50	3,120	2,770	1,970	3,350
28	48	5,870	3,430	3,600	850	3,150	52	1,940	3,420	48	2,130	46
29	51	4,760	3,470	2,980	-----	2,650	4,100	2,810	48	3,970	1,450	47
30	50	4,760	3,290	3,200	-----	50	4,020	3,360	48	3,570	1,660	4,420
31	48	-----	4,520	3,090	-----	50	-----	47	-----	2,940	49	-----
TOTAL	9,950	33,907	122,230	86,530	68,446	53,296	83,827	81,174	129,347	83,900	54,581	29,856
MEAN	321	1,130	3,943	2,791	2,445	1,719	2,794	2,619	4,312	2,706	1,761	995
MAX	1,760	8,170	8,220	6,030	5,430	5,130	5,020	6,240	13,700	4,780	4,250	4,420
MIN	47	47	2,310	51	53	50	46	42	45	45	47	46
AC-FT	19,740	67,250	242,400	171,600	135,800	105,700	166,300	161,000	256,600	166,400	108,300	59,220
CAL YR 1973	TOTAL 921,955		MEAN 2,526		MAX 25,900	MIN 44	AC-FT 1,829,000					
WTR YR 1974	TOTAL 837,044		MEAN 2,293		MAX 13,700	MIN 42	AC-FT 1,660,000					

07050500 Kings River near Berryville, Ark.

LOCATION.--Lat 36°25'36", long 93°37'15", in SE¼NE¼ sec.3, T.20 N., R.25 W., Carroll County, on right bank at downstream side of bridge on State Highway 145, 1.5 mi (2.4 km) downstream from Bee Creek, 2.5 mi (4.0 km) upstream from Clabber Creek, 5.3 mi (8.5 km) northwest of Berryville, and at mile 35.1 (56.5 km).

DRAINAGE AREA.--527 mi² (1,365 km²).

PERIOD OF RECORD.--April 1939 to current year. Monthly discharge only for April 1939, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 963.10 ft (293.553 m) above mean sea level. Apr. 4 to July 11, 1939, nonrecording gage and July 12, 1939, to Sept. 30, 1951, water-stage recorder, at site 5.0 mi (8.0 km) upstream at datum 27.71 ft (8.446 m) higher. Oct. 1, 1951, to Oct. 22, 1952, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 578 ft³/s (16.4 m³/s), 14.75 in/yr (375 mm/yr), 418,800 acre-ft/yr (516 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 40,200 ft³/s (1,140 m³/s) Nov. 25, gage height, 30.50 ft (9.296 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 1, gage height, 1.85 ft (0.564 m).

Period of record: Maximum discharge, 59,000 ft³/s (1,670 m³/s) May 10, 1943, gage height, 30.20 ft (9.205 m), site and datum then in use, or about 37.0 ft (11.3 m), present site and datum; minimum, 0.10 ft³/s (0.003 m³/s) Aug. 27, 28, 1954.

Flood of Apr. 14, 1927, reached a stage of about 38.0 ft (11.6 m), present site and datum, from information by local residents, discharge, 62,000 ft³/s (1,760 m³/s).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	64	920	588	540	694	529	2,410	345	128	24	92
2	45	63	760	509	512	611	480	2,880	382	118	87	191
3	43	64	691	451	480	552	710	3,650	347	106	117	326
4	41	66	6,420	412	440	500	824	2,230	303	98	88	415
5	38	67	5,340	383	400	445	725	1,740	321	94	66	278
6	38	63	2,380	361	376	408	596	1,350	3,160	94	53	196
7	40	61	1,530	345	357	389	529	1,090	10,000	91	45	150
8	38	57	1,160	337	336	376	495	918	11,700	85	40	133
9	38	54	951	330	315	342	445	871	10,500	78	39	150
10	36	51	802	333	297	372	398	885	7,390	75	54	121
11	36	48	686	380	283	1,830	398	797	2,920	70	70	97
12	42	45	603	416	269	3,160	611	658	1,970	65	74	419
13	93	44	543	390	259	1,900	857	567	1,420	61	62	682
14	80	43	495	368	252	1,370	766	1,410	1,100	57	57	450
15	91	41	454	360	357	1,200	652	3,820	885	55	49	313
16	100	40	419	357	852	1,520	596	1,570	772	52	45	234
17	96	38	390	343	722	1,440	524	1,030	654	49	42	189
18	84	37	363	333	659	1,210	475	755	536	46	44	190
19	74	37	498	327	789	1,270	445	594	466	44	43	133
20	69	41	1,480	323	900	1,640	426	484	389	41	46	1,080
21	64	51	1,470	316	1,020	1,820	5,380	404	339	38	44	1,880
22	57	51	1,160	311	2,800	2,130	5,170	354	303	36	45	1,180
23	53	60	1,060	298	2,770	1,850	3,230	315	273	34	41	724
24	49	6,720	2,500	286	1,850	1,490	1,970	315	249	33	39	497
25	44	30,800	3,070	273	1,340	1,230	1,430	344	231	32	37	370
26	42	10,400	1,950	295	1,070	1,060	1,150	444	201	32	35	295
27	47	5,280	1,370	416	918	929	959	391	182	31	32	294
28	53	2,570	1,070	544	798	824	811	339	170	31	30	267
29	55	1,620	895	596	-----	746	693	299	150	29	29	220
30	57	1,170	772	614	-----	662	1,160	257	137	26	32	177
31	59	-----	677	580	-----	586	-----	272	-----	24	32	-----
TOTAL	1,753	59,746	42,879	12,175	21,961	34,556	33,434	33,443	57,795	1,853	1,541	11,743
MEAN	56.5	1,992	1,383	393	784	1,115	1,114	1,079	1,927	59.8	49.7	391
MAX	100	30,800	6,420	614	2,800	3,160	5,380	3,820	11,700	128	117	1,880
MIN	36	37	363	273	252	342	398	257	137	24	24	92
CFSM	.11	3.78	2.62	.75	1.49	2.12	2.11	2.05	3.66	.11	.09	.74
IN.	.12	4.22	3.03	.86	1.55	2.44	2.36	2.36	4.08	.13	.11	.83
AC-FT	3,480	118,500	85,050	24,150	43,560	68,540	66,320	66,330	114,600	3,680	3,060	23,290

CAL YR 1973 TOTAL 428,599 MEAN 1,174 MAX 30,800 MIN 16 CFSM 2.23 IN 30.25 AC-FT 850,100
WTR YR 1974 TOTAL 312,879 MEAN 857 MAX 30,800 MIN 24 CFSM 1.63 IN 22.09 AC-FT 620,600

PEAK DISCHARGE (BASE, 8,000 CF5)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-25	1200	30.50	40,200	4-21	0900	16.34	10,200
12- 4	2100	16.17	9,950	6- 9	2100	21.66	18,700

07054500 Bull Shoals Lake near Flippin, Ark.

LOCATION.--Lat 36°21'56", long 92°34'29", in NW¼ sec.21, T.20 N., R.15 W., Marion County, at dam on White River, 6.3 mi (10.1 km) northeast of Flippin, 12.5 mi (20.1 km) downstream from Little North Fork, and at mile 418.6 (673.5 km).

DRAINAGE AREA.--6,051 mi² (15,670 km²).

PERIOD OF RECORD.--January 1951 to current year. Prior to October 1969, published as Bull Shoals Reservoir near Flippin.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to July 20, 1951, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum contents, 4,365,000 acre-ft (5.38 km³) June 29, elevation, 679.10 ft (206.990 m); minimum, 2,847,000 acre-ft (3.51 km³) Nov. 22, elevation, 699.47 ft (197.958 m).

Period of record: Maximum contents, 5,366,000 acre-ft (6.62 km³) June 21, 1957, elevation, 694.41 ft (211.656 m); minimum since bottom of power pool was first reached, 953,000 acre-ft (1,180 hm³) Sept. 29, 1954, elevation, 587.43 ft (179.049 m).

REMARKS.--Lake is formed by a concrete-gravity dam. Storage for purpose of filling to power-pool level began July 23, 1951, and bottom of power pool was first reached Mar. 13, 1952. Capacity between elevations 654.0 ft (199.34 m) and 695.0 ft (211.84 m) is 2,360,000 acre-ft (2.91 km³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Contents computed from daily readings at 2400 hours to five significant figures prior to Oct. 1, 1963. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates.....	695.0 (211.84 m)	5,408,000 (6.67 km ³)
Crest of gated spillway.....	667.0 (203.30 m)	3,682,500 (4.54 km ³)
Top of designated power pool.....	654.0 (199.34 m)	3,048,000 (3.76 km ³)
Bottom of designated power pool.....	628.5 (191.57 m)	2,045,000 (2.52 km ³)
Bottom of lowest outlet.....	477.1 (145.42 m)	8,410 (10.4 hm ³)

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1973: Drainage area.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

649 (197.8 m)	2,827 (3.49 km ³)	670 (204.2 m)	3,843 (4.74 km ³)
656 (199.9 m)	3,139 (3.87 km ³)	675 (205.7 m)	4,123 (5.08 km ³)
665 (202.7 m)	3,579 (4.41 km ³)	680 (207.3 m)	4,419 (5.45 km ³)

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,042	2,943	3,322	4,074	3,701	3,118	3,256	3,283	3,515	4,349	4,026	3,686
2	3,038	2,943	3,349	4,076	3,675	3,118	3,255	3,295	3,514	4,345	4,014	3,685
3	3,034	2,944	3,376	4,082	3,649	3,119	3,252	3,303	3,514	4,340	4,008	3,667
4	3,023	2,944	3,468	4,083	3,620	3,112	3,242	3,310	3,524	4,351	3,996	3,653
5	3,014	2,940	3,506	4,081	3,591	3,100	3,233	3,313	3,539	4,349	3,977	3,638
6	3,005	2,934	3,534	4,083	3,571	3,097	3,224	3,302	3,555	4,346	3,960	3,621
7	3,001	2,929	3,559	4,084	3,555	3,088	3,218	3,299	3,700	4,346	3,943	3,614
8	2,990	2,926	3,583	4,094	3,532	3,080	3,209	3,299	3,746	4,327	3,930	3,601
9	2,985	2,922	3,607	4,098	3,506	3,082	3,198	3,295	3,840	4,316	3,920	3,572
10	2,984	2,919	3,623	4,114	3,473	3,109	3,185	3,288	3,887	4,304	3,922	3,548
11	2,986	2,917	3,643	4,124	3,442	3,156	3,173	3,295	3,933	4,296	3,917	3,532
12	2,991	2,914	3,664	4,145	3,416	3,174	3,160	3,297	3,971	4,286	3,895	3,518
13	3,010	2,906	3,680	4,153	3,389	3,189	3,173	3,299	4,009	4,275	3,885	3,501
14	3,012	2,900	3,698	4,152	3,364	3,205	3,186	3,349	4,040	4,258	3,878	3,496
15	3,011	2,887	3,730	4,141	3,355	3,221	3,169	3,378	4,075	4,241	3,870	3,486
16	3,011	2,881	3,759	4,128	3,340	3,229	3,152	3,395	4,106	4,225	3,862	3,481
17	3,009	2,877	3,775	4,108	3,316	3,234	3,134	3,405	4,135	4,211	3,865	3,476
18	3,009	2,874	3,791	4,087	3,294	3,237	3,114	3,414	4,162	4,203	3,865	3,461
19	3,006	2,864	3,824	4,058	3,273	3,240	3,098	3,420	4,190	4,194	3,839	3,438
20	3,007	2,861	3,845	4,028	3,253	3,246	3,095	3,420	4,215	4,180	3,827	3,438
21	3,006	2,848	3,867	3,994	3,251	3,250	3,155	3,426	4,242	4,170	3,821	3,443
22	2,993	2,848	3,891	3,963	3,239	3,255	3,223	3,434	4,272	4,152	3,813	3,442
23	2,987	2,848	3,913	3,928	3,224	3,259	3,241	3,440	4,298	4,134	3,797	3,442
24	2,980	3,021	3,951	3,898	3,202	3,258	3,252	3,448	4,319	4,118	3,794	3,424
25	2,971	3,104	3,984	3,866	3,179	3,260	3,258	3,462	4,340	4,112	3,790	3,401
26	2,962	3,161	4,011	3,838	3,163	3,257	3,258	3,476	4,354	4,095	3,771	3,378
27	2,962	3,208	4,033	3,811	3,149	3,254	3,259	3,486	4,357	4,088	3,759	3,356
28	2,967	3,237	4,055	3,784	3,136	3,252	3,260	3,490	4,364	4,078	3,735	3,351
29	2,956	3,267	4,067	3,767	-----	3,249	3,270	3,494	4,360	4,062	3,714	3,353
30	2,944	3,296	4,075	3,744	-----	3,244	3,281	3,502	4,355	4,053	3,697	3,331
31	2,944	-----	4,074	3,724	-----	3,240	-----	3,510	-----	4,038	3,688	-----
MAX	3,042	3,296	4,075	4,153	3,701	3,260	3,281	3,510	4,364	4,351	4,026	3,686
MIN	2,944	2,848	3,322	3,724	3,136	3,080	3,095	3,283	3,514	4,038	3,688	3,331
(†)	651.67	659.32	674.14	667.78	655.94	658.15	659.00	663.64	678.93	673.50	667.11	660.04
(‡)	-109	+352	+778	-350	-588	+104	+41	+229	+845	-317	-350	-357

CAL YR 1973..... † +1,047

WTR YR 1974..... ‡ +278

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.

WHITE RIVER BASIN

07055000 White River near Flippin, Ark.

LOCATION (revised).--Lat 36°18'35", long 92°33'28", NE¼NW¼ sec.10, T.19 N., R.15 W., on right bank 1.4 mi (2.3 km) upstream from Hightower Creek, 3.2 mi (5.1 km) northeast of Flippin, 11.9 mi (19.1 km) downstream from Bull Shoals Dam, 11.8 mi (19.0 km) upstream from Crooked Creek, and at mile 406.7 (654.4 km).

DRAINAGE AREA.--6,081 mi² (15,750 km²).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 419.66 ft (127.912 m) above mean sea level (Corps of Engineers bench mark). Prior to Dec. 21, 1938, nonrecording gage at site 1.1 mi (1.7 km) upstream at datum 1.52 ft (0.463 m) higher.

AVERAGE DISCHARGE.--46 years, 6,038 ft³/s (171 m³/s), 4,375,000 acre-ft/yr (5,390 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 25,700 ft³/s (728 m³/s) Feb. 9, gage height, 12.72 ft (3.877 m); minimum daily, 305 ft³/s (8.64 m³/s) Dec. 16.

Period of record: Maximum discharge, 215,000 ft³/s (6,090 m³/s) Apr. 17, 1945, gage height, 39.82 ft (12.137 m); minimum daily, 90 ft³/s (2.55 m³/s) Aug. 3, 1949, caused by temporary storage behind Bull Shoals Dam upstream.

Flood of Apr. 16, 1927 reached a stage of 45.4 ft (13.84 m) original site and datum, or about 41 ft (12.5 m), present site and datum, discharge, 240,000 ft³/s (6,800 m³/s), from data by Corps of Engineers.

REMARKS.--Records good. Flow completely regulated by Bull Shoals Lake since July 24, 1951 (see station 07054500). Prior to this date some regulation at low flow by Lake Taneycomo (Missouri) 100 mi (161 km) upstream, capacity, 23,700 acre-ft (29.2 hm³). Some regulation by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), and by Beaver Lake since Dec. 26, 1963 (see station 07049690). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,680	3,700	5,280	5,840	18,900	15,300	7,500	13,700	3,710	11,600	11,800	5,200
2	3,020	4,660	5,160	9,170	18,900	7,640	14,200	14,700	3,930	12,200	10,300	5,620
3	4,010	2,220	6,590	5,440	18,900	5,900	17,000	14,700	4,180	12,600	7,760	11,800
4	6,830	1,590	6,180	6,870	20,200	12,100	18,700	7,790	4,880	6,420	7,090	14,400
5	5,020	3,800	5,260	6,500	21,400	13,900	17,300	7,050	4,880	5,540	12,400	13,800
6	5,700	6,700	5,620	6,160	20,200	11,800	17,800	14,600	3,340	6,060	14,100	14,800
7	2,310	5,400	5,080	5,760	18,400	13,400	17,600	14,100	3,460	4,390	15,000	7,960
8	8,460	5,280	5,620	5,500	18,700	12,700	18,800	13,600	1,280	14,200	14,700	6,900
9	6,240	5,280	6,220	7,500	20,800	3,440	18,500	13,800	2,440	15,000	17,300	14,600
10	4,080	1,870	6,570	5,440	20,200	2,130	19,500	13,700	2,410	14,300	5,920	15,500
11	2,520	904	7,310	7,400	20,700	8,670	18,200	6,720	2,640	13,600	5,360	15,200
12	1,630	2,590	7,070	3,610	20,500	11,000	18,500	4,410	2,230	14,300	17,500	14,900
13	1,490	4,720	7,670	5,500	19,900	9,350	4,660	7,010	3,020	12,900	14,700	12,400
14	824	4,540	7,340	6,630	20,500	8,130	1,600	2,150	3,520	12,400	14,600	5,940
15	4,230	6,810	1,460	7,480	16,700	10,100	14,300	6,340	2,990	14,100	15,600	5,780
16	2,220	4,230	305	12,300	15,600	11,400	17,000	5,600	2,510	15,200	15,700	6,040
17	4,290	2,460	5,840	14,700	15,700	12,700	16,700	3,140	4,480	13,900	8,670	6,480
18	3,930	1,350	7,180	17,200	18,400	13,500	18,300	5,540	4,290	12,500	3,260	14,100
19	6,200	5,920	9,010	19,400	19,400	13,600	17,900	4,100	4,060	12,700	17,500	16,500
20	2,410	5,420	8,850	20,400	18,200	14,000	8,330	7,230	3,930	12,100	14,800	17,100
21	739	9,040	6,260	21,600	18,900	15,200	4,880	4,290	2,320	10,400	13,700	6,700
22	9,300	2,400	7,050	21,400	18,200	12,000	11,000	4,540	1,590	13,700	12,500	3,660
23	8,260	5,580	7,570	21,900	15,600	15,000	12,500	4,720	669	14,600	14,600	3,970
24	7,500	8,180	6,590	21,400	15,700	14,200	12,900	3,040	4,060	15,400	8,830	13,900
25	9,320	2,800	7,400	21,000	17,800	15,300	14,400	2,430	4,540	10,300	4,160	17,300
26	8,930	2,380	7,430	21,500	15,600	15,700	13,800	1,900	6,540	11,100	13,100	16,900
27	10,100	3,040	7,270	21,200	16,200	17,000	15,100	2,410	8,330	8,670	12,900	16,900
28	4,330	4,420	7,030	20,100	14,800	16,400	14,800	4,330	9,480	7,090	15,100	11,600
29	10,000	6,060	6,630	18,300	-----	16,100	10,000	4,840	9,660	10,600	15,500	4,100
30	8,830	5,200	6,720	19,400	-----	16,200	13,400	4,900	11,500	7,570	13,400	16,300
31	4,500	-----	9,710	17,500	-----	15,800	-----	3,500	-----	13,700	8,100	-----
TOTAL	163,903	128,544	199,275	404,100	515,000	379,660	425,170	220,880	126,969	359,140	375,950	336,350
MEAN	5,287	4,285	6,428	13,040	18,390	12,250	14,170	7,125	4,232	11,590	12,130	11,210
MAX	10,100	9,040	9,710	21,900	21,400	17,000	19,500	14,700	11,500	15,400	17,500	17,300
MIN	739	904	305	3,610	14,800	2,130	1,600	1,900	669	4,390	3,260	3,660
AC-FT	325,100	255,000	395,300	801,500	1,022M	753,100	843,300	438,100	251,800	712,400	745,700	667,200

CAL YR 1973 TOTAL 4,047,057 MEAN 11,090 MAX 24,700 MIN 305 AC-FT 8,027,000

WTR YR 1974 TOTAL 3,634,941 MEAN 9,959 MAX 21,900 MIN 305 AC-FT 7,210,000

07056000 Buffalo River near St. Joe, Ark.

LOCATION.--Lat 35°59'02", long 92°44'44", in SW¼SW¼ sec.36, T.16 N., R.17 W., Searcy County, near right bank on downstream side of bridge on U.S. Highway 65, 1.6 mi (2.6 km) downstream from Mill Creek, 5.4 mi (8.7 km) upstream from Bear Creek, 4.5 mi (7.2 km) southeast of St. Joe, and at mile 58.3 (93.8 km).

DRAINAGE AREA.--829 mi² (2,147 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 560.35 ft (170.795 m) above mean sea level. Prior to Mar. 1, 1940, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 1,055 ft³/s (29.9 m³/s), 17.37 in/yr (441 mm/yr), 764,300 acre-ft/yr (942 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 111,000 ft³/s (3,140 m³/s) Nov. 25, gage height, 45.41 ft (13.841 m); minimum, 60 ft³/s (1.70 m³/s) Aug. 29,30, gage height, 3.95 ft (1.204 m).

Period of record: Maximum discharge, 111,000 ft³/s (3,140 m³/s) Nov. 25, 1973, gage height, 45.41 ft (13.841 m); minimum, 6.6 ft³/s (0.19 m³/s) Sept. 16, 17, 20, 1954.

Maximum stage, 50.5 ft (15.39 m) in August 1915, from information by Corps of Engineers

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1211: 1945(M), 1949(M). WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	242	2,220	1,370	822	1,060	821	2,290	621	257	83	87
2	192	301	1,860	1,150	774	959	754	2,750	707	243	85	92
3	171	282	1,890	1,020	725	887	813	3,650	592	229	79	119
4	154	262	21,700	928	656	810	1,020	3,510	513	216	75	338
5	139	250	9,380	857	595	783	909	2,990	629	205	73	250
6	130	258	4,900	806	562	892	785	2,210	4,410	196	71	181
7	125	247	3,480	765	532	980	729	1,740	15,600	188	70	148
8	121	235	2,770	706	499	920	712	1,430	18,500	178	70	128
9	116	223	2,320	670	458	832	681	1,230	10,400	172	70	118
10	112	210	1,950	676	430	776	631	1,360	8,770	164	69	111
11	108	200	1,660	694	405	2,770	609	1,800	4,350	153	67	115
12	106	191	1,450	675	384	5,170	1,110	2,350	3,050	142	66	1,820
13	9,550	186	1,300	620	369	3,230	1,750	1,750	2,360	133	66	1,910
14	4,170	181	1,150	580	358	2,500	1,960	1,850	1,820	124	67	1,480
15	2,160	175	1,050	572	347	2,100	2,190	7,700	1,460	118	69	1,100
16	1,240	168	957	561	352	1,920	1,770	4,480	1,530	115	70	650
17	848	165	864	546	382	1,700	1,480	2,890	1,280	109	76	390
18	633	162	791	531	406	1,480	1,270	2,140	1,030	104	78	196
19	495	159	1,750	515	417	1,370	1,150	1,650	881	99	79	174
20	399	165	4,910	511	466	1,440	1,070	1,310	747	96	77	184
21	336	533	3,500	524	761	1,740	994	1,070	643	90	75	2,670
22	295	1,180	2,780	518	3,290	2,080	2,110	936	567	84	71	1,630
23	250	2,480	2,440	494	3,020	1,910	2,510	831	506	82	69	980
24	236	23,000	4,210	474	2,310	1,750	1,930	717	451	79	68	673
25	219	77,800	5,000	418	1,820	1,510	1,590	629	402	85	67	528
26	205	15,200	3,600	444	1,490	1,360	1,350	878	365	89	65	433
27	200	8,420	2,890	528	1,300	1,250	1,170	1,290	335	105	65	406
28	197	5,070	2,370	707	1,180	1,150	1,020	1,110	310	102	63	359
29	197	3,550	2,110	875	-----	1,070	899	865	290	100	62	310
30	197	2,740	1,820	925	-----	983	977	646	271	92	68	273
31	211	-----	1,600	878	-----	887	-----	613	-----	85	84	-----
TOTAL	23,720	144,235	100,672	21,538	25,110	48,269	36,764	60,665	83,390	4,234	2,217	17,853
MEAN	765	4,808	3,247	695	897	1,557	1,225	1,957	2,780	137	71.5	595
MAX	9,550	77,800	21,700	1,370	3,290	5,170	2,510	7,700	18,500	257	85	2,670
MIN	106	159	791	418	347	776	609	613	271	79	62	87
CFSM	.92	5.80	3.92	.84	1.08	1.88	1.48	2.36	3.35	.17	.09	.72
IN.	1.06	6.47	4.52	.97	1.13	2.17	1.65	2.72	3.74	.19	.10	.80
AC-FT	47,050	286,100	199,700	42,720	49,810	95,740	72,920	120,300	165,400	8,400	4,400	35,410

CAL YR 1973 TOTAL 920,491 MEAN 2,522 MAX 77,800 MIN 54 CFSM 3.04 IN 41.31 AC-FT 1,826,000
WTR YR 1974 TOTAL 568,667 MEAN 1,558 MAX 77,800 MIN 62 CFSM 1.88 IN 25.52 AC-FT 1,128,000

PEAK DISCHARGE (BASE, 13,000 CF5)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
10-13	1300	20.18	22,700	12-4	1130	23.50	31,000
11-25	0745	45.41	111,000	6-8	0045	24.64	34,100

07059500 Norfolk Lake near Norfolk, Ark.

LOCATION.--Lat 36°14'57", long 92°14'16", in SE¼ sec.2, T.18 N., R.12 W., Baxter County, at dam on North Fork River, 4.3 mi (6.9 km) northeast of Norfolk, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--1,808 mi² (4,683 km²).

PERIOD OF RECORD.--June 1943 to current year. Prior to October 1969, published as Norfolk Reservoir near Norfolk.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Feb. 1, 1945, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum contents, 1,688,000 acre-ft (2,080 hm³) June 24, elevation, 569.80 ft (173.675 m); minimum, 1,229,000 acre-ft (1,520 hm³) Nov. 16, 17, 21, 22, elevation, 550.98 ft (167.939 m).

Period of record: Maximum contents, 1,954,000 acre-ft (2,410 hm³) May 10, 1973, elevation, 579.04 ft (176.491 m); minimum since power-pool level was first reached, 541,500 acre-ft (668 hm³) Sept. 21, 1954, elevation, 509.78 ft (155.381 m).

REMARKS.--Lake is formed by concrete-gravity dam. Storage began on June 18, 1943, and bottom of power pool was first reached June 13, 1944. Capacity between elevations 552.0 ft (168.2 m) and 580.0 ft (176.8 m) is 731,800 acre-ft (902 hm³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Contents computed from daily readings at 2400 hours to five significant figures prior to Oct. 1, 1963. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates.....	580.0 (176.78 m)	1,983,000 (2,450 hm ³)
Crest of gated spillway and top of designated power pool.....	552.0 (168.25 m)	1,251,200 (1,540 hm ³)
Bottom of designated power pool.....	528.3 (161.03 m)	802,900 (990 hm ³)
Bottom of lowest outlet.....	395.0 (120.40 m)	2,500 (3.08 hm ³)

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1973: Drainage area.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

550 (167.6 m)	1,207 (1,490 hm ³)	565 (172.2 m)	1,560 (1,920 hm ³)
555 (169.2 m)	1,318 (1,630 hm ³)	570 (173.7 m)	1,706 (2,100 hm ³)
560 (170.7 m)	1,436 (1,770 hm ³)		

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	OEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,293	1,253	1,508	1,595	1,455	1,316	1,311	1,380	1,495	1,652	1,474	1,343
2	1,291	1,251	1,510	1,591	1,449	1,315	1,307	1,381	1,493	1,647	1,466	1,344
3	1,289	1,254	1,516	1,586	1,443	1,314	1,305	1,384	1,491	1,642	1,463	1,341
4	1,287	1,257	1,569	1,581	1,436	1,312	1,300	1,390	1,491	1,640	1,459	1,337
5	1,286	1,252	1,589	1,574	1,429	1,306	1,295	1,393	1,492	1,638	1,453	1,322
6	1,287	1,248	1,597	1,568	1,422	1,303	1,290	1,393	1,494	1,634	1,446	1,327
7	1,288	1,244	1,601	1,563	1,414	1,298	1,286	1,396	1,533	1,632	1,441	1,325
8	1,284	1,244	1,604	1,560	1,406	1,291	1,281	1,396	1,558	1,625	1,436	1,326
9	1,281	1,242	1,606	1,560	1,399	1,291	1,276	1,395	1,609	1,618	1,432	1,321
10	1,277	1,243	1,607	1,558	1,391	1,297	1,270	1,392	1,629	1,612	1,430	1,317
11	1,275	1,244	1,609	1,556	1,383	1,322	1,267	1,394	1,642	1,609	1,428	1,313
12	1,276	1,242	1,609	1,553	1,376	1,330	1,266	1,398	1,650	1,604	1,422	1,309
13	1,286	1,241	1,610	1,550	1,368	1,332	1,271	1,399	1,656	1,597	1,417	1,305
14	1,288	1,237	1,611	1,546	1,360	1,332	1,277	1,421	1,661	1,592	1,411	1,304
15	1,285	1,233	1,605	1,541	1,356	1,332	1,273	1,441	1,666	1,589	1,406	1,304
16	1,282	1,229	1,598	1,534	1,351	1,335	1,270	1,450	1,669	1,583	1,402	1,303
17	1,277	1,230	1,591	1,528	1,344	1,336	1,269	1,455	1,673	1,576	1,398	1,300
18	1,273	1,232	1,590	1,520	1,338	1,336	1,266	1,458	1,675	1,570	1,398	1,296
19	1,268	1,230	1,604	1,515	1,331	1,335	1,262	1,460	1,678	1,565	1,392	1,292
20	1,267	1,229	1,608	1,511	1,324	1,333	1,266	1,463	1,680	1,559	1,386	1,292
21	1,268	1,229	1,608	1,506	1,326	1,330	1,284	1,469	1,682	1,553	1,381	1,293
22	1,262	1,231	1,606	1,502	1,333	1,327	1,364	1,484	1,685	1,545	1,376	1,295
23	1,258	1,249	1,605	1,497	1,333	1,327	1,381	1,493	1,687	1,537	1,372	1,296
24	1,253	1,351	1,607	1,491	1,330	1,325	1,385	1,492	1,685	1,528	1,368	1,292
25	1,249	1,434	1,609	1,485	1,325	1,323	1,386	1,492	1,682	1,521	1,366	1,289
26	1,244	1,470	1,610	1,480	1,324	1,321	1,386	1,492	1,678	1,513	1,362	1,284
27	1,247	1,488	1,609	1,476	1,320	1,318	1,385	1,491	1,670	1,507	1,357	1,280
28	1,251	1,496	1,607	1,474	1,319	1,315	1,388	1,492	1,662	1,501	1,353	1,282
29	1,249	1,502	1,605	1,471	-----	1,312	1,376	1,493	1,659	1,495	1,347	1,282
30	1,249	1,506	1,603	1,466	-----	1,309	1,380	1,494	1,657	1,489	1,343	1,278
31	1,251	-----	1,600	1,460	-----	1,306	-----	1,495	-----	1,481	1,341	-----
MAX	1,293	1,506	1,611	1,595	1,455	1,336	1,388	1,495	1,687	1,652	1,474	1,344
MIN	1,244	1,229	1,508	1,460	1,319	1,291	1,262	1,380	1,491	1,481	1,341	1,278
(†)	552.00	562.83	566.50	561.01	555.04	554.44	557.65	562.40	568.67	561.84	555.99	553.21
(‡)	-43	+255	+94	-140	-141	-13	+74	+115	+162	-176	-140	-63

CAL YR 1973..... † +386

WTR YR 1974..... ‡ -16

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,430	1,890	2,000	4,040	5,060	3,950	97	3,510	3,500	3,820	4,240	360
2	1,400	3,190	1,980	4,030	5,160	2,860	4,200	4,320	3,080	3,800	4,760	794
3	1,830	97	1,990	3,950	5,120	2,940	4,230	3,050	3,020	3,820	2,080	2,210
4	1,550	97	1,230	4,320	5,140	3,840	4,310	2,080	3,030	2,090	2,150	2,460
5	609	2,940	1,530	5,040	5,280	4,610	4,190	2,120	2,730	2,850	3,950	3,200
6	314	3,190	1,860	5,040	5,180	3,450	4,190	3,300	2,620	3,040	3,800	3,170
7	234	2,790	2,010	3,970	5,180	4,790	4,190	2,020	1,100	2,080	3,480	1,700
8	2,570	1,100	2,040	2,950	5,460	4,820	4,160	2,590	1,630	4,570	3,120	413
9	1,970	1,250	1,980	2,460	5,120	2,050	4,410	4,090	928	4,540	3,060	3,190
10	2,410	310	2,020	2,870	5,100	3,390	4,200	4,050	1,100	3,840	1,690	2,840
11	2,120	100	1,920	2,800	5,280	4,870	4,220	2,440	1,110	2,660	1,670	3,040
12	2,200	1,870	2,100	3,300	5,220	5,380	3,810	1,900	1,300	3,910	4,060	3,210
13	1,230	1,280	2,130	2,970	5,220	5,300	96	2,080	1,310	4,210	3,220	3,200
14	1,480	2,400	1,720	3,310	5,160	5,320	98	2,020	1,330	3,360	3,120	1,180
15	2,580	3,090	5,080	4,640	4,920	5,230	4,240	2,010	1,110	2,630	3,180	588
16	2,640	2,760	5,080	5,060	5,240	3,310	4,140	2,110	1,100	3,700	3,140	1,530
17	3,140	99	4,580	5,080	5,140	3,360	2,630	2,010	1,300	4,630	2,390	2,200
18	2,740	97	2,080	5,120	5,220	4,540	3,730	2,040	1,130	3,450	1,100	2,670
19	2,960	1,730	3,340	5,080	5,280	4,640	4,010	2,270	1,130	3,370	3,850	3,180
20	1,330	1,570	4,140	5,100	5,420	5,000	96	1,700	903	4,000	3,350	2,680
21	413	1,430	4,060	5,100	5,480	5,060	1,080	1,980	1,370	3,970	3,190	622
22	3,300	98	4,060	5,100	5,400	4,950	3,900	2,090	967	4,540	3,150	312
23	2,930	3,250	4,060	5,120	5,320	4,140	4,280	2,090	1,110	4,580	3,150	295
24	2,620	2,020	4,080	5,120	5,340	4,120	4,860	4,580	2,020	5,080	2,350	2,340
25	2,920	2,640	4,120	5,120	5,260	4,110	5,080	4,550	2,980	4,820	1,340	2,710
26	2,910	1,120	4,080	5,120	3,600	4,170	4,350	4,590	4,100	4,460	3,430	2,820
27	96	1,880	4,060	5,120	3,710	4,140	4,450	4,560	5,120	3,440	3,120	3,020
28	97	1,970	3,990	4,110	3,600	4,600	2,510	2,670	5,120	3,830	2,800	691
29	1,860	1,970	4,030	4,050	-----	4,160	10,700	2,830	2,670	3,810	3,500	332
30	1,120	2,000	4,020	5,160	-----	4,140	1,710	2,720	2,820	3,540	2,660	3,230
31	1,310	-----	4,070	5,100	-----	3,940	-----	2,190	-----	4,340	1,790	-----
TOTAL	56,313	50,268	95,440	135,350	141,610	131,220	108,167	86,560	62,698	116,840	91,890	60,187
MEAN	1,817	1,676	3,079	4,366	5,058	4,233	3,606	2,792	2,090	3,769	2,964	2,006
MAX	3,300	3,250	5,080	5,160	5,480	5,380	10,700	4,590	5,120	5,080	4,760	3,230
MIN	96	97	1,230	2,460	3,600	2,050	96	1,700	903	2,080	1,100	295
AC-FT	111,700	99,710	189,300	268,500	280,900	260,300	214,500	171,700	124,400	231,800	182,300	119,400
CAL YR 1973	TOTAL	1,111,454	MEAN	3,045	MAX	8,620	MIN	95	AC-FT	2,205,000		
WTR YR 1974	TOTAL	1,136,543	MEAN	3,114	MAX	10,700	MIN	96	AC-FT	2,254,000		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,880	7,590	13,400	15,700	26,200	21,400	17,700	15,600	7,260	15,000	16,700	7,900
2	7,740	7,250	12,400	14,800	25,600	19,000	12,500	23,500	8,600	15,200	16,100	6,960
3	5,060	6,540	12,000	14,700	27,200	10,700	22,200	23,600	7,670	16,000	13,600	7,330
4	6,720	2,910	34,600	13,100	27,600	13,000	24,900	21,400	8,090	14,400	9,550	16,000
5	8,040	4,340	44,600	15,100	28,100	19,500	23,700	16,800	10,300	7,850	10,300	16,800
6	5,580	8,120	23,200	14,100	28,100	19,700	24,200	18,200	9,780	9,790	18,600	17,400
7	6,260	10,300	17,300	13,000	24,100	17,600	23,000	19,600	18,000	8,720	17,600	16,200
8	4,280	7,010	14,800	11,600	25,500	20,000	24,100	18,500	38,900	10,700	17,500	8,520
9	11,200	7,290	13,500	11,100	26,600	15,600	24,800	20,400	26,200	19,000	20,200	10,200
10	8,320	6,560	13,600	11,200	27,400	7,630	24,500	20,400	24,500	18,300	15,300	18,500
11	6,990	2,540	13,200	11,700	27,400	11,500	24,600	17,000	16,700	16,600	7,470	17,900
12	4,900	2,690	12,900	12,700	28,000	22,700	24,000	11,600	11,500	17,500	13,600	18,000
13	9,210	4,650	13,100	10,100	26,400	23,500	18,000	11,600	10,100	17,700	18,200	19,100
14	17,000	7,540	12,000	11,500	27,500	19,900	5,550	10,700	8,950	16,500	17,800	13,800
15	9,960	7,710	14,600	12,000	24,700	18,300	9,700	16,900	9,100	15,200	18,200	7,560
16	10,500	10,400	8,860	17,900	22,400	18,400	23,700	20,700	6,800	17,900	18,600	8,360
17	7,560	5,660	8,470	20,200	22,500	19,500	22,900	15,100	7,200	19,300	17,200	7,860
18	8,910	3,020	12,000	23,400	23,000	20,600	23,100	12,500	8,250	16,000	8,340	10,600
19	8,150	3,070	14,100	26,200	26,200	19,900	23,900	7,640	15,800	11,700	19,300	19,300
20	9,520	8,260	21,700	26,700	25,400	21,900	18,200	9,120	7,010	16,100	18,400	19,900
21	3,720	7,640	22,100	28,800	26,100	23,300	9,480	11,100	6,990	16,300	17,500	15,700
22	4,500	10,000	18,100	28,200	30,500	22,900	14,300	9,960	5,240	15,000	16,300	8,420
23	13,300	7,380	17,000	29,200	28,300	22,000	18,400	9,760	3,780	19,000	16,500	5,880
24	11,200	27,600	17,200	28,500	26,600	22,200	21,500	10,900	3,980	19,400	16,200	7,550
25	10,800	109,000	19,700	28,300	27,400	22,600	22,800	9,040	8,270	18,200	9,130	20,100
26	13,100	89,500	20,500	28,400	22,700	21,600	20,500	9,190	9,640	15,400	8,170	19,600
27	10,600	33,100	17,700	28,700	23,100	23,300	21,300	9,430	14,200	16,000	17,300	19,800
28	9,910	21,200	16,800	28,300	21,600	23,200	19,000	8,810	14,000	11,000	15,500	17,600
29	5,540	18,100	16,400	25,500	-----	22,800	23,400	10,300	11,900	10,500	18,700	11,400
30	12,800	15,400	15,600	25,700	-----	23,100	17,300	8,660	13,800	14,400	17,100	8,790
31	9,310	-----	15,600	25,400	-----	21,300	-----	8,000	-----	13,800	15,300	-----
TOTAL	270,560	462,370	527,030	611,800	726,200	608,630	603,230	438,670	344,350	472,560	472,660	403,030
MEAN	8,728	15,410	17,000	19,740	25,940	19,630	20,110	14,150	11,480	15,240	15,250	13,430
MAX	17,000	109,000	44,600	29,200	30,500	23,500	24,900	23,600	38,900	19,400	20,200	20,100
MIN	3,720	2,540	8,470	10,100	21,600	7,630	5,550	8,000	3,780	7,850	7,470	5,880
AC-FT	536,700	917,100	1,045M	1,214M	1,440M	1,207M	1,197M	870,100	683,000	937,300	937,500	799,400
CAL YR 1973	TOTAL 6,887,790		MEAN 18,870		MAX 109,000		MIN 2,540		AC-FT 13,660,000			
WTR YR 1974	TOTAL 5,941,090		MEAN 16,280		MAX 109,000		MIN 2,540		AC-FT 11,780,000			

07060710 North Sylamore Creek near Fifty Six, Ark.
(Hydrologic bench-mark station)

LOCATION.--Lat 35°59'30", long 92°12'50", in SW¼NW¼ sec.25, T.16 N., R.12 W., Stone County, on right bank 30 ft (9 m) upstream from bridge on Ozark National Forest service road, 200 ft (61 m) downstream from Gunner Creek, 2.7 mi (4.3 km) north of Fifty Six, and 7.0 mi (11.3 km) upstream from South Sylamore Creek.

DRAINAGE AREA.--58.1 mi² (150.5 km²).

PERIOD OF RECORD.--December 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 434.99 ft (132.585 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 56.6 ft³/s (1.60 m³/s), 13.16 in/yr (334 mm/yr), 41,000 acre-ft/yr (50.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,700 ft³/s (246 m³/s) Oct. 13, gage height, 13.00 ft (3.962 m); minimum, 5.2 ft³/s (0.147 m³/s) Sept. 30.

Period of record: Maximum discharge, 17,800 ft³/s (504 m³/s) Apr. 22, 1973, gage height, 17.61 ft (5.367 m), from floodmarks, from rating curve extended above 3,700 ft³/s (105 m³/s) on basis of step-backwater computations; minimum, 1.8 ft³/s (0.051 m³/s) Sept. 19, 20, 1972.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	36	54	37	66	46	41	79	43	13	8.3	10
2	8.8	23	42	34	57	42	37	356	36	13	8.4	17
3	7.9	17	158	35	48	40	64	222	32	12	8.3	22
4	7.6	22	2,380	33	42	37	72	149	29	12	8.2	12
5	7.3	26	362	32	40	42	55	153	40	12	7.8	8.9
6	6.8	22	173	32	37	59	48	116	49	12	7.6	7.9
7	6.8	18	107	31	33	55	45	91	1,490	11	7.6	7.4
8	7.0	16	79	29	30	48	43	76	425	11	7.4	7.0
9	6.8	13	62	28	28	44	37	74	210	11	8.8	6.8
10	6.5	11	52	34	27	43	34	78	125	10	9.9	6.9
11	8.8	10	44	42	25	509	36	82	84	10	8.6	14
12	28	9.8	41	37	24	274	69	106	62	10	7.9	12
13	2,320	9.1	38	33	24	149	69	80	49	10	7.9	12
14	265	9.1	34	34	23	107	61	370	41	10	7.6	11
15	109	8.8	32	34	22	88	55	690	36	11	7.4	8.8
16	55	8.2	28	33	24	78	50	257	33	9.9	7.4	7.8
17	31	7.9	26	31	24	66	44	145	29	9.5	7.4	7.1
18	22	7.9	25	31	23	60	41	105	26	9.4	8.4	6.7
19	17	7.6	122	30	23	81	38	81	24	9.1	8.1	6.5
20	15	17	302	40	23	79	35	65	22	8.8	7.6	8.2
21	12	71	138	50	230	121	60	74	21	8.8	7.3	9.1
22	11	46	103	46	671	114	292	468	20	8.8	7.0	8.0
23	9.4	302	83	44	218	106	146	232	19	8.8	17	7.0
24	8.8	2,770	101	41	136	85	103	129	17	8.8	33	6.5
25	8.2	1,620	115	39	93	74	77	102	16	12	14	6.2
26	8.2	1,030	95	42	68	67	64	117	15	16	9.6	6.2
27	11	362	74	53	60	59	54	127	15	11	9.3	6.3
28	12	229	62	128	53	54	47	98	14	9.7	8.7	6.3
29	9.8	120	62	128	-----	52	41	77	14	9.0	8.3	5.8
30	8.8	76	55	97	-----	48	58	64	13	8.6	8.2	5.5
31	33	-----	49	79	-----	43	-----	48	-----	8.3	8.2	-----
TOTAL	3,078.5	6,925.4	5,098	1,417	2,172	2,770	1,916	4,911	3,049	324.5	291.2	266.9
MEAN	99.3	231	164	45.7	77.6	89.4	63.9	158	102	10.5	9.39	8.90
MAX	2,320	2,770	2,380	128	671	509	292	690	1,490	16	33	22
MIN	6.5	7.6	25	28	22	37	34	48	13	8.3	7.0	5.5
CFSM	1.71	3.98	2.82	.79	1.34	1.54	1.10	2.72	1.76	.18	.16	.15
IN.	1.97	4.43	3.26	.91	1.39	1.77	1.23	3.14	1.95	.21	.19	.17
AC-FT	6,110	13,740	10,110	2,810	4,310	5,490	3,800	9,740	6,050	644	578	529
CAL YR 1973	TOTAL 47,502.0	MEAN 130	MAX 5,640	MIN 3.2	CF5M 2.24	IN 30.41	AC-FT 94,220					
WTR YR 1974	TOTAL 32,219.5	MEAN 88.3	MAX 2,770	MIN 5.5	CF5M 1.52	IN 20.63	AC-FT 63,910					

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
10-13	0500	13.00	8,700	12-4	0330	11.21	6,170
11-14	2345	11.00	5,900	6-7	1215	8.56	3,270

07064000 Black River near Corning, Ark.

LOCATION.--Lat 36°24'07", long 90°32'29", in SW¼NE¼ sec.4, T.20 N., R.5 E., Clay County, near left bank on downstream side of bridge on U.S. Highway 62, 2.2 mi (3.5 km) east of Corning, 11.9 mi (19.1 km) downstream from Cane Creek, and at mile 152.2 (244.9 km).

DRAINAGE AREA.--1,749 mi² (4,530 km²).

PERIOD OF RECORD.--October 1938 to current year. Gage-height records collected at site 7.0 mi (11.3 km) downstream January 1925 to December 1929 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 272.90 ft (83.180 m) above mean Gulf level (Corps of Engineers bench mark). Prior to Nov. 5, 1953, nonrecording gage, and Nov. 5, 1953, to Oct. 9, 1957, water-stage recorder, at site 30 ft (9 m) downstream at present datum.

AVERAGE DISCHARGE.--36 years, 1,794 ft³/s (50.8 m³/s), 1,300,000 acre-ft/yr (1,600 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 22,000 ft³/s (623 m³/s) Nov. 28, gage height, 14.09 ft (4.295 m); minimum, 460 ft³/s (13.0 m³/s) Aug. 8, 9, gage height, 1.61 ft (0.491 m).
Period of record: Maximum discharge, 48,600 ft³/s (1,380 m³/s) June 13, 1945; maximum gage height, 16.92 ft (5.157 m) June 13, 1945; minimum discharge, 224 ft³/s (6.34 m³/s) Sept. 22-27, 1941; minimum gage height observed, -0.52 ft (-0.158 m) Sept. 26, 1941.
Flood of Apr. 18, 1927, reached a stage of 14.4 ft (4.389 m), from records of Corps of Engineers.

REMARKS.--Records good. Some regulation by Clearwater Lake (Missouri), 105 mi (169 km) upstream, since June 3, 1948, capacity, 413,700 acre-ft (510 hm³). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	841	1,220	9,490	6,590	4,830	3,240	4,010	3,130	2,410	1,070	485	930
2	831	1,290	6,190	6,670	3,870	3,260	3,970	3,380	2,420	1,040	522	975
3	809	1,370	4,950	6,670	3,400	3,480	3,980	3,630	2,420	980	564	1,100
4	795	1,400	4,670	5,830	3,180	3,690	3,910	3,780	2,380	998	546	1,300
5	786	1,410	6,020	5,150	2,910	3,870	3,750	3,820	2,290	980	508	1,360
6	779	1,400	8,180	5,090	2,740	4,070	3,250	3,760	2,190	960	485	1,400
7	778	1,390	8,250	4,990	2,680	4,150	2,880	3,630	2,140	942	469	1,380
8	779	1,380	6,250	4,770	2,750	4,170	2,620	3,360	2,180	933	463	1,250
9	780	1,370	4,640	3,840	3,140	4,130	2,520	3,070	2,300	944	463	1,120
10	776	1,360	3,870	4,060	3,270	4,070	2,420	3,000	2,350	942	498	1,080
11	773	1,390	3,240	4,770	3,490	4,230	2,350	2,990	2,560	944	634	1,040
12	767	1,470	3,060	5,960	3,650	5,790	2,430	2,890	2,570	991	612	991
13	756	1,560	2,810	6,030	3,730	6,780	2,740	2,690	2,470	991	549	951
14	727	1,650	2,650	5,420	3,760	6,350	2,870	2,500	2,370	946	546	894
15	760	1,720	2,550	4,820	3,750	4,890	2,840	3,060	2,290	861	555	808
16	817	1,780	2,460	4,590	3,730	4,380	2,730	4,370	2,240	776	586	741
17	806	1,810	2,400	5,100	3,670	4,220	2,560	5,610	2,290	739	693	747
18	777	1,860	2,360	5,410	3,610	4,410	2,390	5,700	2,430	751	735	821
19	786	1,870	2,370	5,290	3,660	4,330	2,230	4,600	2,540	770	714	887
20	818	1,820	2,520	5,190	3,690	4,090	2,120	3,850	2,580	759	672	938
21	843	1,560	2,750	5,740	3,580	3,930	2,080	3,520	2,540	700	620	1,000
22	857	1,310	2,920	6,670	3,760	3,920	2,100	3,260	2,420	632	582	1,050
23	868	1,240	3,000	6,550	4,680	4,050	2,150	3,760	2,110	821	620	1,060
24	874	2,030	3,080	6,060	5,780	4,040	2,260	5,230	1,840	757	662	1,060
25	875	3,460	3,960	5,660	5,810	3,960	2,360	6,480	1,600	714	684	1,030
26	875	8,310	6,460	5,340	4,620	3,970	2,390	5,060	1,400	708	652	993
27	904	17,000	8,000	5,170	3,990	4,050	2,400	3,890	1,280	712	578	946
28	978	21,400	7,730	5,410	3,340	4,110	2,480	3,120	1,220	668	531	885
29	1,080	19,700	6,730	6,020	-----	4,110	2,670	2,760	1,150	602	609	843
30	1,160	14,400	6,740	6,370	-----	4,070	2,930	2,520	1,100	542	860	879
31	1,210	-----	6,820	5,790	-----	4,040	-----	2,470	-----	501	918	-----
TOTAL	26,265	120,930	147,120	171,020	105,070	131,850	82,390	114,890	64,080	25,674	18,615	30,459
MEAN	847	4,031	4,746	5,517	3,753	4,253	2,746	3,706	2,136	828	600	1,015
MAX	1,210	21,400	9,490	6,670	5,810	6,780	4,010	6,480	2,580	1,070	918	1,400
MIN	727	1,220	2,360	3,840	2,680	3,240	2,080	2,470	1,100	501	463	741
AC-FT	52,100	239,900	291,800	339,200	208,400	261,500	163,400	227,900	127,100	50,920	36,920	60,420
CAL YR 1973	TOTAL	1,409,151	MEAN	3,861	MAX	22,200	MIN	567	AC-FT	2,795,000		
WTR YR 1974	TOTAL	1,038,363	MEAN	2,845	MAX	21,400	MIN	463	AC-FT	2,060,000		

07069500 Spring River at Imboden, Ark.

LOCATION.--Lat 36°12'19", long 91°10'19", in SE¼NE¼ sec.15, T.18 N., R.2 W., Randolph County, near left bank on downstream side of bridge on U.S. Highway 62 at Imboden, 1.8 mi (2.9 km) upstream from Harding Creek, 3.9 mi (6.3 km) downstream from Janes Creek, 8.2 mi (13.2 km) upstream from Eleven Point River, and at mile 12.1 (19.5 km).

DRAINAGE AREA.--1,183 mi² (3,064 km²).

PERIOD OF RECORD.--February 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 254.07 ft (77.441 m) above mean sea level. Prior to July 17, 1937, nonrecording gage at site 200 ft (61 m) downstream at present datum. July 17, 1937, to Feb. 8, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--38 years, 1,378 ft³/s (39.0 m³/s), 16.10 in/yr (409 mm/yr), 998,400 acre-ft/yr (1,230 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 41,200 ft³/s (1,170 m³/s) Nov. 25, gage height, 23.48 ft (7.157 m); minimum, 505 ft³/s (14.3 m³/s) Oct. 11, gage height, 3.10 ft (0.945 m).

Period of record: Maximum discharge, 78,500 ft³/s (2,220 m³/s) Jan. 24, 1949, gage height, 28.42 ft (8.662 m), from rating curve extended above 45,000 ft³/s (1,270 m³/s); minimum daily, 215 ft³/s (6.09 m³/s) Aug. 1, 1936.

Flood in August 1915 reached a stage of about 32.1 ft (9.78 m), from information by Corps of Engineers, discharge, about 125,000 ft³/s (3,540 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD 1147: 1937-39, 1942-43, 1945. WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	612	889	3,070	2,100	2,330	2,330	1,810	1,870	2,020	1,230	670	614
2	591	877	2,740	1,950	2,200	2,250	1,710	1,860	1,940	1,200	661	670
3	579	913	2,950	1,880	2,050	2,160	1,840	2,310	1,760	1,160	653	717
4	564	873	20,600	1,790	1,930	2,070	1,880	2,030	1,650	1,100	637	651
5	547	910	13,600	1,730	1,850	2,010	1,710	1,850	1,810	1,120	628	640
6	547	843	5,690	1,690	1,780	2,740	1,590	1,720	2,180	1,060	624	621
7	556	806	3,960	1,640	1,690	2,580	1,580	1,630	8,800	1,040	609	612
8	553	756	3,300	1,600	1,640	2,280	1,570	1,580	12,300	1,030	613	601
9	545	718	2,900	1,590	1,580	2,080	1,510	1,610	7,900	1,000	634	654
10	535	688	2,620	2,240	1,530	2,150	1,460	1,910	12,700	879	718	716
11	515	670	2,390	2,600	1,480	3,970	1,460	2,120	5,900	940	673	665
12	1,880	661	2,250	2,130	1,440	4,370	2,150	3,380	3,960	932	640	647
13	3,060	693	2,150	1,940	1,410	3,330	2,130	3,000	3,340	991	639	655
14	2,690	688	1,980	1,850	1,380	2,820	1,990	2,240	2,890	918	634	650
15	1,530	684	1,910	1,790	1,390	2,630	1,800	22,300	2,780	912	623	632
16	1,150	665	1,800	1,720	2,210	2,770	1,690	9,930	2,630	881	678	614
17	982	653	1,690	1,670	2,220	2,730	1,610	3,870	2,390	851	653	610
18	882	640	1,610	1,640	1,870	2,490	1,550	2,990	2,200	830	825	598
19	823	844	1,900	1,590	2,630	2,520	1,500	2,550	2,090	816	717	592
20	775	753	4,350	2,010	2,280	2,470	1,450	2,280	1,990	799	660	633
21	737	1,280	3,690	2,610	5,680	2,830	1,450	2,340	1,880	787	635	961
22	707	1,370	2,680	2,430	15,200	2,800	3,360	7,100	1,790	782	620	886
23	684	2,230	2,420	2,210	7,150	2,610	4,490	6,040	1,700	776	604	765
24	668	18,700	2,790	2,070	4,230	2,520	2,600	3,550	1,610	757	611	698
25	647	37,400	3,020	1,940	3,340	2,330	2,190	2,880	1,540	743	605	666
26	632	24,800	2,870	2,020	2,910	2,220	2,000	2,760	1,480	778	616	648
27	648	15,200	2,840	2,240	2,670	2,140	1,880	2,670	1,430	745	693	638
28	652	7,550	2,480	3,780	2,480	2,090	1,780	2,450	1,380	726	647	638
29	649	4,560	2,620	3,440	-----	2,020	1,700	2,230	1,320	715	633	778
30	681	3,570	2,500	2,840	-----	1,940	1,730	2,080	1,280	693	614	739
31	788	-----	2,290	2,550	-----	1,850	-----	2,150	-----	679	606	-----
TOTAL	27,409	131,884	113,660	65,280	80,550	78,100	57,170	109,280	98,640	27,870	20,073	20,209
MEAN	884	4,396	3,666	2,106	2,877	2,519	1,906	3,525	3,288	899	648	674
MAX	3,060	37,400	20,600	3,780	15,200	4,370	4,490	22,300	12,700	1,230	825	961
MIN	515	640	1,610	1,590	1,380	1,850	1,450	1,580	1,280	679	604	592
CF5M	.75	3.72	3.10	1.78	2.43	2.13	1.61	2.98	2.78	.76	.55	.57
1N.	.86	4.15	3.57	2.05	2.53	2.46	1.80	3.44	3.10	.88	.63	.64
AC-FT	54,470	261,600	225,400	129,500	159,800	154,900	113,400	216,800	195,700	55,280	39,810	40,080
CAL YR 1973	TOTAL	1,110,995	MEAN	3,044	MAX	42,400	MIN	515	CF5M	2.57	1N	34.94
WTR YR 1974	TOTAL	830,125	MEAN	2,274	MAX	37,400	MIN	515	CF5M	1.92	1N	26.10
AC-FT	2,204,000	AC-FT	1,647,000									

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-25	0315	23.48	41,200	5-15	1200	22.79	34,200
12-04	1414	21.36	28,500	5-22	2030	15.56	10,500
2-22	0445	19.69	19,900	6-08	0245	18.25	14,500

07072000 Eleven Point River near Ravenden Springs, Ark.

LOCATION.--Lat 36°20'48", long 91°06'48", in SE¼SE¼ sec.30, T.20 N., R.1 W., Randolph County, on left bank at downstream side of bridge on State Highway 90, 0.9 mi (1.4 km) downstream from Hincha Creek, 1.9 mi (3.1 km) upstream from Eassis Creek, 6.6 mi (10.6 km) northeast of Ravenden Springs, and at mile 21.2 (34.1 km).

DRAINAGE AREA.--1,134 mi² (2,937 km²).

PERIOD OF RECORD.--October 1929 to September 1933, October 1935 to current year. Prior to October 1949, published as "near Elevenpoint." Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 291.98 ft (88.996 m) above mean sea level. Prior to Nov. 21, 1938, nonrecording gage at present site at datum 0.04 ft (0.012 m) higher. Nov. 21, to Dec. 11, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--43 years, 1,122 ft³/s (31.8 m³/s), 13.57 in/yr (345 mm/yr), 812,900 acre-ft/yr (1,000 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18,300 ft³/s (518 m³/s) probably occurred May 15 or 16, gage height, 16.77 ft (5.111 m), from peak-stage indicator; minimum, 761 ft³/s (21.6 m³/s) Oct. 10, 11, 12, gage height, 3.44 ft (1.049 m).

Period of record: Maximum discharge, 37,600 ft³/s (1,060 m³/s) Nov. 17, 1958, gage height, 20.83 ft (6.349 m), from rating curve extended above 23,000 ft³/s (651 m³/s); minimum observed, 226 ft³/s (6.40 m³/s) Sept. 9, 1936, gage height, 2.13 ft (0.649 m), present datum.

REMARKS.--Records good except for days of no gage-height record, which are poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 877: 1930-33, 1936-38. WSP 977: 1933, 1937-39, 1942. WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	828	1,060	2,800	2,150	2,170	2,190	1,910	1,900	2,290	1,580	1,120	1,030
2	813	1,060	2,500	2,020	2,080	2,100	1,860	2,000	2,100	1,550	1,120	1,080
3	798	1,020	2,800	1,950	1,980	2,030	1,950	2,100	1,990	1,510	1,110	1,080
4	795	1,000	7,000	1,880	1,870	1,960	1,900	2,000	1,910	1,480	1,100	1,040
5	785	976	8,500	1,830	1,800	2,010	1,800	1,900	1,950	1,480	1,080	1,010
6	779	939	4,820	1,790	1,760	2,130	1,730	1,800	2,220	1,440	1,080	1,000
7	778	915	3,400	1,750	1,710	1,990	1,700	1,800	5,030	1,410	1,070	989
8	773	898	2,940	1,710	1,660	1,890	1,720	1,700	4,580	1,400	1,060	983
9	770	878	2,670	1,700	1,620	1,820	1,700	1,700	4,710	1,380	1,100	1,000
10	765	855	2,470	1,890	1,580	2,030	1,650	1,700	8,110	1,360	1,130	1,000
11	761	840	2,310	1,970	1,540	3,900	1,650	1,800	4,820	1,520	1,110	996
12	1,420	833	2,210	1,770	1,510	4,560	2,000	2,000	3,620	1,410	1,080	989
13	1,810	825	2,140	1,690	1,490	3,510	1,990	1,800	3,070	1,340	1,080	983
14	1,450	821	2,030	1,670	1,470	2,950	1,920	1,800	2,770	1,330	1,070	977
15	1,180	819	1,960	1,650	1,440	2,730	1,820	7,500	5,210	1,300	1,060	964
16	1,040	809	1,870	1,630	1,620	2,800	1,750	9,600	3,370	1,290	1,100	952
17	975	794	1,800	1,610	1,600	2,700	1,700	4,000	2,700	1,270	1,080	946
18	931	819	1,750	1,600	1,580	2,570	1,700	2,900	2,470	1,250	2,070	933
19	901	810	1,930	1,590	2,050	2,510	1,600	2,400	2,340	1,240	1,550	927
20	877	849	2,630	1,770	1,840	2,390	1,600	2,200	2,210	1,220	1,240	1,030
21	858	1,040	2,720	2,340	3,620	2,460	3,100	2,040	2,110	1,210	1,160	1,010
22	840	999	2,350	2,410	8,450	2,340	6,800	4,310	2,030	1,200	1,120	952
23	825	3,500	2,230	2,300	5,100	2,300	7,700	5,100	1,970	1,200	1,090	933
24	813	7,000	2,780	2,150	3,590	2,260	4,400	3,540	1,890	1,190	1,120	921
25	804	12,000	3,020	2,020	2,990	2,160	2,500	2,940	1,830	1,180	1,070	915
26	795	15,000	2,900	2,020	2,640	2,100	2,100	2,710	1,780	1,210	1,060	909
27	816	10,000	2,850	2,160	2,460	2,070	1,900	2,560	1,740	1,180	1,060	909
28	849	7,000	2,540	2,720	2,320	2,040	1,800	2,380	1,690	1,170	1,050	1,020
29	860	4,500	2,780	2,650	-----	2,030	1,800	2,260	1,650	1,150	1,090	1,160
30	843	3,300	2,480	2,440	-----	2,020	1,800	2,170	1,620	1,130	1,070	946
31	979	-----	2,320	2,300	-----	1,940	-----	2,640	-----	1,130	1,010	-----
TOTAL	28,511	82,159	89,500	61,130	65,540	74,490	69,550	87,250	85,780	40,710	35,310	29,584
MEAN	920	2,739	2,887	1,972	2,341	2,403	2,318	2,815	2,859	1,313	1,139	986
MAX	1,810	15,000	8,500	2,720	8,450	4,560	7,700	9,600	8,110	1,580	2,070	1,160
MIN	761	794	1,750	1,590	1,440	1,820	1,600	1,700	1,620	1,130	1,010	909
CFSM	.81	2.42	2.55	1.74	2.06	2.12	2.04	2.48	2.52	1.16	1.00	.87
1N.	.94	2.70	2.94	2.01	2.15	2.44	2.28	2.86	2.81	1.34	1.16	.97
AC-FT	56,550	163,000	177,500	121,300	130,000	147,800	138,000	173,100	170,100	80,750	70,040	58,680
CAL YR 1973	TOTAL 915,708	MEAN 2,509	MAX 29,100	MIN 761	CFSM 2.21	IN 30.04	AC-FT 1,816,000					
WTR YR 1974	TOTAL 749,514	MEAN 2,053	MAX 15,000	MIN 761	CFSM 1.81	IN 24.59	AC-FT 1,487,000					

PEAK DISCHARGE (BASE, 6,000 CFS)

NOTE.--No gage-height record Apr. 16 to May 20.

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-25	UNKNOWN	16.45	17,200	5-15			
12-05	UNKNOWN	14.50	11,800	OR 16	UNKNOWN	16.77	18,300
2-22	1430	13.08	9,150	6-10	1030	12.96	8,960
4-23	UNKNOWN	UNKNOWN	UNKNOWN	6-15	1445	11.47	6,860

07072500 Black River at Black Rock, Ark.

LOCATION.--Lat 36°06'15", long 91°05'50", in NW¼ sec.21, T.17 N., R.1 W., Lawrence County, on right bank 900 ft (274 m) downstream from St. Louis-San Francisco Railway bridge at Black Rock, 3.7 mi (6.0 km) downstream from Spring River, and at mile 69.3 (109.8 km).

DRAINAGE AREA.--7,369 mi² (19,090 km²).

PERIOD OF RECORD.--June 1929 to September 1931, October 1939 to current year. Gage-height records collected in same vicinity since 1904 are contained in reports of National Weather Service.

GAGE.--Nonrecording gage read twice daily, more often during rises. Datum of gage is 229.56 ft (69.970 m) above mean sea level. Prior to Aug. 1, 1946, at site 900 ft (274 m) upstream at present datum.

AVERAGE DISCHARGE.--37 years, 8,396 ft³/s (238 m³/s), 6,083,000 acre-ft/yr (7,500 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 61,600 ft³/s (1,740 m³/s) Dec. 5, gage height, 25.93 ft (7.903 m); minimum observed, 3,930 ft³/s (111 m³/s) Oct. 12.

Period of record: Maximum discharge, 105,000 ft³/s (2,970 m³/s) Apr. 24, 1973, gage height, 29.24 ft (8.912 m); minimum daily, 1,730 ft³/s (49.1 m³/s) in September, October, and November 1956.

Flood of Aug. 21, 1915, reached a stage of 31.9 ft (9.72 m), from records of National Weather Service, discharge, 160,000 ft³/s (4,530 m³/s).

REMARKS.--Records good. Flow slightly regulated by Clearwater Lake (Missouri), 189 mi (304 km) upstream, since June 3, 1948, capacity, 413,700 acre-ft (510 hm³). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1211: 1930-31. WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,640	6,380	43,400	19,900	18,600	20,100	15,100	16,900	17,800	8,540	5,000	6,120
2	4,390	6,530	41,800	19,400	18,000	19,200	14,600	16,300	17,100	8,220	4,810	6,290
3	4,240	7,810	39,500	19,400	17,400	18,300	14,500	15,800	15,700	7,850	4,690	6,250
4	4,200	9,350	50,300	18,900	16,600	17,400	14,300	15,400	15,100	7,560	4,640	6,100
5	4,090	9,180	59,800	17,300	15,900	16,200	13,700	14,900	14,700	7,300	4,700	6,060
6	3,990	8,230	47,200	16,800	15,100	17,000	13,400	14,600	14,400	7,230	4,700	6,040
7	3,980	7,310	38,300	15,800	14,300	16,300	13,300	14,100	24,200	7,000	4,600	5,900
8	3,980	6,620	34,200	15,000	13,500	15,400	12,900	13,600	27,500	6,790	4,530	5,960
9	3,980	6,150	32,800	14,500	12,800	14,000	12,500	13,400	24,700	6,710	4,540	5,630
10	3,980	5,800	30,800	17,300	12,000	14,300	12,200	14,300	29,400	6,600	4,950	5,730
11	3,980	5,490	28,300	17,400	11,400	18,800	12,100	14,600	27,900	6,420	5,270	5,640
12	3,950	5,350	26,200	16,600	10,800	21,500	13,600	15,800	24,300	6,440	5,140	5,520
13	5,490	5,240	24,300	14,900	10,400	20,900	13,900	15,600	22,200	6,630	5,000	5,330
14	7,400	5,150	22,300	14,900	9,960	20,900	14,000	15,200	21,100	6,470	4,940	5,280
15	6,670	5,070	20,700	14,400	9,690	21,700	13,800	29,400	21,500	6,350	4,880	5,340
16	6,400	5,050	18,900	14,200	11,600	22,700	13,700	32,000	21,700	6,240	4,820	5,460
17	6,500	5,050	17,100	14,400	12,100	23,400	13,200	25,800	20,100	6,110	4,780	5,330
18	6,210	5,070	15,500	14,300	11,600	23,200	12,700	23,100	18,800	5,920	5,880	5,050
19	5,590	5,380	15,000	14,200	13,600	23,000	12,400	21,700	17,100	5,760	6,900	4,910
20	5,140	5,340	17,800	14,700	13,800	22,500	11,900	20,500	15,800	5,710	6,570	4,920
21	4,810	5,890	17,200	16,600	17,800	22,300	11,400	20,200	14,700	5,600	6,180	5,260
22	4,590	6,400	16,200	16,100	29,600	21,500	14,300	23,900	13,500	5,470	5,830	5,410
23	4,470	8,030	16,200	17,900	28,200	20,900	20,200	26,000	12,500	5,460	5,450	5,180
24	4,390	29,400	18,300	17,500	25,400	19,900	20,000	23,200	11,800	5,650	5,070	4,940
25	4,290	49,600	19,200	17,700	23,400	19,400	18,100	21,800	11,100	5,900	4,790	4,810
26	4,210	53,300	19,000	17,800	22,400	18,700	19,300	21,100	10,300	6,090	4,730	4,740
27	4,170	50,400	19,800	18,000	21,600	18,000	20,000	20,300	9,770	6,010	4,870	4,760
28	4,170	40,900	19,500	21,000	20,900	17,400	19,500	19,600	9,330	5,870	4,900	4,750
29	4,410	38,900	20,100	20,200	-----	16,700	19,100	19,000	8,970	5,670	4,980	5,030
30	5,450	42,100	20,200	20,000	-----	16,100	17,700	18,100	8,730	5,390	5,000	5,350
31	6,390	-----	20,400	19,100	-----	15,600	-----	18,700	-----	5,230	5,070	-----
TOTAL	150,150	450,470	830,300	526,200	458,450	593,300	447,400	594,900	521,800	198,190	158,210	152,820
MEAN	4,844	15,020	26,780	16,970	16,370	19,140	14,910	19,190	17,390	6,393	5,104	5,427
MAX	7,400	53,300	59,800	21,000	29,600	23,400	20,200	32,000	29,400	8,540	6,900	6,290
MIN	3,950	5,050	15,000	14,200	9,690	14,000	11,400	13,400	8,730	5,230	4,530	4,740
AC-FT	297,800	893,500	1,647M	1,044M	909,300	1,177M	887,400	1,180M	1,035M	393,100	313,800	323,000
CAL YR 1973	TOTAL 6,443,820		MEAN 17,650		MAX 98,900		MIN 3,890		AC-FT 12,780,000			
WTR YR 1974	TOTAL 5,092,190		MEAN 13,950		MAX 59,800		MIN 3,950		AC-FT 10,100,000			

07073000 Strawberry River near Evening Shade, Ark.

LOCATION.--Lat 36°05'56", long 91°36'30", in NE¼NE¼ sec.27, T.17 N., R.6 W., Sharp County, near left bank on downstream side of bridge on U.S. Highway 167, 2.0 mi (3.2 km) north of Evening Shade, 6.3 mi (10.1 km) upstream from Piney Fork, and at mile 55.9 (89.9 km).

DRAINAGE AREA.--217 mi² (562 km²).

PERIOD OF RECORD.--February 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 406.56 ft (123.919 m) above mean sea level. Prior to July 23, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 212 ft³/s (6.00 m³/s), 12.80 in/yr (325 mm/yr), 153,600 acre-ft/yr (189 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 13,100 ft³/s (371 m³/s) Nov. 24, gage height, 21.05 ft (6.416 m); minimum, 18 ft³/s (0.51 m³/s) Aug. 8, 9, gage height, 3.90 ft (1.189 m).
Period of record: Maximum discharge, 31,000 ft³/s (878 m³/s) Jan. 24, 1949, gage height, 26.59 ft (8.105 m), from rating curve extended above 16,000 ft³/s (453 m³/s); minimum, 2.8 ft³/s (0.079 m³/s) Sept. 23, 1954.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WRD Ark. 1973: Drainage area. Revised figures of discharge, in cubic feet per second, for the water year 1973, superseding figures published in WRD Ark. 1973, are given herewith:

Month	cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff inches	acre-feet
July	1,254	98	30	40.5	.19	.21	2,490
August	994	64	24	32.1	.15	.17	1,970
September	1,789	529	24	59.6	.27	.31	3,550
Water year 1973	162,562	10,300	14	445	2.05	27.87	322,400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974												
OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	78	456	246	351	280	146	188	168	60	22	26
2	29	88	378	213	311	260	131	202	156	56	21	31
3	28	68	484	200	267	241	158	322	128	53	21	33
4	28	69	5,940	196	232	216	193	240	116	51	20	29
5	27	101	2,050	193	214	201	139	198	156	49	20	28
6	29	84	863	188	200	463	119	160	221	46	19	26
7	27	76	595	181	184	390	113	133	2,490	45	19	25
8	26	69	492	169	171	300	112	119	2,570	43	18	24
9	26	64	427	166	162	256	102	121	1,670	41	19	23
10	26	58	370	238	154	243	96	150	1,350	42	20	23
11	26	55	321	453	145	907	95	138	638	38	21	25
12	86	52	295	301	137	805	172	683	478	36	24	23
13	1,560	50	269	224	111	485	209	306	370	34	23	24
14	779	49	237	208	104	384	149	248	309	34	22	24
15	237	49	226	203	103	355	130	3,720	264	33	22	23
16	147	57	210	192	213	376	111	1,480	325	34	22	24
17	106	55	192	175	229	334	102	571	224	31	22	24
18	86	56	181	162	147	281	94	396	186	29	26	23
19	76	58	364	152	223	244	90	302	170	28	24	22
20	67	62	1,320	259	202	230	85	241	159	28	23	23
21	60	255	602	455	1,920	376	82	223	146	28	22	24
22	55	160	448	310	2,750	383	313	1,350	129	28	21	29
23	50	677	396	256	863	327	351	627	120	26	20	35
24	46	7,940	448	245	601	333	220	375	110	26	110	29
25	43	8,420	486	206	441	288	177	285	104	23	114	27
26	42	4,550	377	216	378	238	159	326	85	25	42	25
27	43	1,790	342	372	347	216	145	434	77	26	36	24
28	42	1,290	287	946	309	204	134	278	70	27	30	25
29	41	775	343	709	-----	192	125	218	65	24	29	26
30	41	580	352	497	-----	174	145	186	62	24	28	26
31	52	-----	290	407	-----	155	-----	166	-----	22	26	-----
TOTAL	3,960	27,735	20,041	8,938	11,469	10,137	4,397	14,386	13,116	1,090	906	773
MEAN	128	925	646	288	410	327	147	464	437	35.2	29.2	25.8
MAX	1,560	8,420	5,940	946	2,750	907	351	3,720	2,570	60	114	35
MIN	26	49	181	152	103	155	82	119	62	22	18	22
CFSM	.59	4.26	2.98	1.33	1.89	1.51	.68	2.14	2.01	.16	.13	.12
IN.	.68	4.75	3.44	1.53	1.97	1.74	.75	2.47	2.25	.19	.16	.13
AC-FT	7,850	55,010	39,750	17,730	22,750	20,110	8,720	28,530	26,020	2,160	1,800	1,530

CAL YR 1973	TOTAL	181,339	MEAN	497	MAX	10,300	MIN	24	CFSM	2.29	IN	31.09	AC-FT	359,700
WTR YR 1974	TOTAL	116,948	MEAN	320	MAX	8,420	MIN	18	CFSM	1.47	IN	20.05	AC-FT	232,000

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-24	2230	21.05	13,100	5-15	1830	15.32	5,100
12- 4	0730	17.50	7,550	6- 7	1700	14.84	4,620
2-21	1830	15.17	4,950				

07073500 Piney Fork at Evening Shade, Ark.

LOCATION.--Lat 36°04'50", long 91°36'39", in SE¼NE¼ sec.34, T.17 N., R.6 W., Sharp County, on right bank 20 ft (6 m) upstream from bridge on U.S. Highway 167, 0.8 mi (1.3 km) north of Evening Shade, and at mile 5.8 (9.3 km).

DRAINAGE AREA.--99.2 mi² (256.9 km²).

PERIOD OF RECORD.--February 1939 to current year. Prior to October 1962, published as Piney Fork Strawberry River at Evening Shade.

GAGE.--Water-stage recorder. Datum of gage is 420.62 ft (128.205 m) above mean sea level. Prior to Oct. 5, 1945, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 92.0 ft³/s (2.61 m³/s), 12.62 in/yr (321 mm/yr), 66,650 acre-ft/yr (82.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,500 ft³/s (156 m³/s) Dec. 4, gage height, 14.12 ft (4.304 m); minimum, 5.2 ft³/s (0.147 m³/s) Aug. 4, gage height, 2.73 ft (0.832 m).
Period of record: Maximum discharge, 17,500 ft³/s (496 m³/s) Jan. 24, 1949, gage height, 23.42 ft (7.138 m), from rating curve extended above 11,000 ft³/s (312 m³/s); no flow at times.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	32	202	102	141	120	77	78	58	29	8.2	7.6
2	9.5	23	171	94	130	110	71	82	52	28	8.0	15
3	9.0	20	235	90	112	102	95	94	46	26	7.5	21
4	8.8	20	3,570	86	100	94	84	149	43	24	6.0	16
5	8.5	26	607	84	93	98	71	131	54	25	6.4	11
6	8.1	25	347	80	88	150	65	100	89	24	6.5	9.1
7	8.9	22	257	78	81	122	63	87	929	23	6.6	8.5
8	9.1	22	212	74	77	103	64	80	566	23	7.0	8.0
9	8.2	21	183	74	73	94	59	82	458	21	7.2	8.4
10	8.3	20	156	127	69	115	56	100	338	22	7.6	8.7
11	8.5	19	138	225	64	397	56	80	210	22	8.2	13
12	83	18	126	155	62	281	87	141	166	23	7.6	9.8
13	601	18	116	129	60	198	70	90	136	19	7.9	9.0
14	142	18	101	121	57	166	73	74	114	19	8.2	9.8
15	70	17	100	113	56	152	66	214	109	18	6.7	8.7
16	53	16	91	104	116	155	61	115	108	15	7.6	8.2
17	41	16	83	94	80	129	58	92	84	13	9.9	7.6
18	36	16	79	89	73	117	56	78	76	13	9.6	7.6
19	33	17	180	85	111	114	54	68	69	13	8.2	7.5
20	30	21	389	126	87	106	51	62	63	13	7.9	7.9
21	28	59	187	177	1,310	173	51	68	57	12	6.4	8.9
22	26	42	157	132	872	141	101	241	52	14	6.1	8.0
23	24	252	146	119	340	133	78	165	48	12	6.0	7.2
24	23	2,340	170	104	253	138	64	105	43	11	57	6.7
25	21	2,610	163	95	194	118	59	90	41	11	21	7.0
26	20	2,920	141	102	168	109	55	93	39	14	11	6.8
27	20	828	129	136	151	101	52	102	37	13	10	6.9
28	20	543	113	356	135	98	49	82	35	11	7.9	6.7
29	19	324	142	233	-----	93	47	70	33	10	8.9	6.9
30	18	250	128	184	-----	85	55	64	31	9.9	8.5	6.8
31	25	-----	117	160	-----	80	-----	61	-----	8.5	7.6	-----
TOTAL	1,429.9	10,575	8,936	3,928	5,153	4,192	1,948	3,138	4,184	539.4	303.2	274.3
MEAN	46.1	353	288	127	184	135	64.9	101	139	17.4	9.78	9.14
MAX	601	2,920	3,570	356	1,310	397	101	241	929	29	57	21
MIN	8.1	16	79	74	56	80	47	61	31	8.5	6.0	6.7
CFSM	.46	3.56	2.90	1.28	1.85	1.36	.65	1.02	1.40	.18	.10	.09
IN.	.54	3.97	3.35	1.47	1.93	1.57	.73	1.18	1.57	.20	.11	.10
AC-FT	2,840	20,980	17,720	7,790	10,220	8,310	3,860	6,220	8,300	1,070	601	544

CAL YR 1973 TOTAL 83,969.4 MEAN 230 MAX 5,230 MIN 3.4 CFSM 2.32 IN 31.49 AC-FT 166,600
WTR YR 1974 TOTAL 44,600.8 MEAN 122 MAX 3,570 MIN 6.0 CFSM 1.23 IN 16.73 AC-FT 88,470

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-25	0315	13.52	5,080	2-21	2115	20.75	3,300
12- 4	0915	14.12	5,500	6- 7	2000	8.86	2,170

WHITE RIVER BASIN

07074000 Strawberry River near Poughkeepsie, Ark.

LOCATION.--Lat 36°06'37", long 91°26'59", in SE¼NW¼ sec.19, T.17 N., R.4 W., Sharp County, on right bank on downstream side of bridge on State Highway 58, 0.5 mi (0.8 km) downstream from Hurricane Creek, 2.5 mi (4.0 km) northeast of Poughkeepsie, and at mile 35.9 (57.8 km).

DRAINAGE AREA.--473 mi² (1,225 km²).

PERIOD OF RECORD.--February 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 298.07 ft (90.852 m) above mean sea level (Corps of Engineers bench mark). Prior to Dec. 10, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--38 years, 517 ft³/s (14.6 m³/s), 14.75 in/yr (375 mm/yr), 374,600 acre-ft/yr (462 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 21,700 ft³/s (615 m³/s) Nov. 25, gage height, 21.04 ft (6.413 m); minimum, 81 ft³/s (2.29 m³/s) Aug. 7, 8, gage height, 1.42 ft (0.433 m).

Period of record: Maximum discharge, 52,000 ft³/s (1,470 m³/s) Jan. 24, 1949, gage height, 29.30 ft (8.931 m), from rating curve extended above 27,000 ft³/s (765 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 31 ft³/s (0.88 m³/s) Oct. 4, 1938.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 877: 1938. WSP 1211: 1938-39. WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	212	1,130	664	803	701	425	432	359	170	87	90
2	104	221	951	589	731	650	398	444	343	163	87	102
3	100	197	1,390	546	652	614	455	585	296	155	86	133
4	97	195	13,400	512	574	580	496	749	274	153	84	113
5	94	231	5,050	485	526	581	421	614	354	161	83	102
6	92	228	2,010	472	495	828	375	493	634	147	82	96
7	96	208	1,450	455	457	870	360	423	4,430	139	82	94
8	94	195	1,180	437	428	708	360	391	4,730	133	105	91
9	91	183	1,020	434	403	633	335	390	2,460	130	102	95
10	90	172	870	1,040	382	673	317	423	2,790	128	96	327
11	91	164	766	1,360	360	1,730	332	398	1,280	142	92	114
12	1,550	158	706	929	343	1,840	592	803	978	131	92	112
13	3,350	154	654	736	320	1,150	556	625	802	127	96	112
14	1,970	151	579	671	299	930	515	444	656	124	93	114
15	628	147	556	632	300	830	449	3,000	582	121	92	105
16	414	146	514	580	502	823	407	2,710	605	118	93	101
17	316	148	472	530	582	751	376	916	502	114	108	98
18	267	151	442	497	464	659	354	656	438	110	109	97
19	237	157	846	471	783	633	336	534	402	107	101	94
20	216	170	2,520	608	626	619	319	455	372	106	95	100
21	199	363	1,300	1,050	4,360	926	323	558	336	104	93	104
22	185	410	989	795	6,110	930	620	2,070	307	103	89	99
23	174	2,370	887	690	2,100	798	783	1,350	280	104	88	103
24	165	11,800	982	634	1,430	797	540	763	252	100	90	106
25	155	16,700	1,100	567	1,090	709	464	597	238	98	244	100
26	148	11,400	989	565	921	628	423	605	223	100	144	98
27	151	4,840	921	765	834	582	393	726	204	101	127	97
28	149	2,980	791	1,780	766	554	367	570	196	100	108	96
29	141	1,600	874	1,560	-----	526	345	469	187	96	99	99
30	137	1,250	877	1,100	-----	486	372	415	177	92	97	97
31	195	-----	764	927	-----	448	-----	385	-----	89	93	-----
TOTAL	11,807	57,301	46,980	23,081	27,641	24,187	12,808	23,993	25,687	3,766	3,137	3,289
MEAN	381	1,910	1,515	745	987	780	427	774	856	121	101	110
MAX	3,350	16,700	13,400	1,780	6,110	1,840	783	3,000	4,730	170	244	327
MIN	90	146	442	434	299	448	317	385	177	89	82	90
CFSM	.81	4.04	3.20	1.58	2.09	1.65	.90	1.64	1.81	.26	.21	.23
IN.	.93	4.51	3.69	1.82	2.17	1.90	1.01	1.89	2.02	.30	.25	.26
AC-FT	23,420	113,700	93,180	45,780	54,830	47,970	25,400	47,590	50,950	7,470	6,220	6,520
CAL YR 1973	TOTAL 417,089	MEAN 1,143	MAX 21,400	MIN 69	CFSM 2.42	IN 32.80	AC-FT 827,300					
WTR YR 1974	TOTAL 263,677	MEAN 722	MAX 16,700	MIN 82	CFSM 1.53	IN 20.74	AC-FT 523,000					

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-25	0100	21.04	21,700	2-21	2130	16.05	10,100
12-4	0700	19.86	18,200				

07074500 White River at Newport, Ark.

LOCATION.--Lat 35°36'18", long 91°17'19", in NE¼NE¼ sec.10, T.11 N., R.3 W., Jackson County, on left bank 100 ft (30 m) below bridge on U.S. Highway 67 at Newport, 7.2 mi (11.6 km) downstream from Black River, and at mile 257.6 (414.5 km).

DRAINAGE AREA.--19,860 mi² (51,440 km²).

PERIOD OF RECORD.--September 1927 to September 1931 (published as "near Newport"), October 1937 to current year. Gage-height records collected at present site since 1885 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 194.09 ft (59.159 m) above mean sea level. September 1927 to September 1931, nonrecording gage at site 2.8 mi (4.5 km) downstream at datum 2.30 ft (0.701 m) lower. Oct. 1, 1937, to Aug. 14, 1953, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--41 years, 22,820 ft³/s (646 m³/s), 16,530,000 acre-ft/yr (20,400 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 138,000 ft³/s (3,910 m³/s) Nov. 28, gage height, 30.15 ft (9.190 m); minimum, 11,000 ft³/s (312 m³/s) Nov. 20, gage height, 4.44 ft (1.353 m).

Period of record: Maximum discharge, 343,000 ft³/s (9,610 m³/s) Apr. 17, 1945; maximum gage height observed, 35.9 ft (10.94 m) Apr. 18, 1945; minimum discharge, 2,870 ft³/s (81.3 m³/s) Sept. 27-30, 1954.

Maximum stage since at least 1927, that of Apr. 18, 1945. Flood of Apr. 16, 1927, reached a stage of 35.6 ft (10.85 m), from records of National Weather Service.

REMARKS.--Records good. Some regulation by Norfolk Lake since 1943 (see station 07059500), by Clearwater Lake (Missouri) since 1948, capacity, 413,700 acre-ft (509 hm³), by Bull Shoals Lake since July 24, 1951 (see station 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), and by Beaver Lake since Dec. 26, 1963 (see station 07049690).

COOPERATION.--Records furnished by Corps of Engineers, and reviewed by Geological Survey. Gage-height records collected in cooperation with the National Weather Service.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17,000	17,400	82,900	41,900	51,500	54,300	44,900	42,400	35,600	24,000	20,400	19,700
2	17,100	16,200	74,400	40,700	51,700	52,700	39,900	40,600	32,700	24,500	21,600	16,500
3	15,100	15,900	71,200	41,000	51,100	49,300	37,600	38,000	32,000	24,300	20,700	15,900
4	13,100	16,800	83,300	39,400	51,200	43,500	41,100	38,200	30,300	24,600	18,500	16,000
5	13,800	14,900	105,000	38,500	51,200	43,300	42,600	40,500	30,500	21,700	15,600	22,000
6	14,600	15,200	115,000	39,000	51,100	45,700	42,000	41,200	32,800	16,900	16,600	22,900
7	13,000	17,900	105,000	37,800	50,200	44,600	42,200	40,100	42,100	18,400	22,300	23,400
8	13,100	18,900	92,500	36,300	48,000	43,500	41,700	39,700	54,400	17,200	22,200	20,700
9	11,500	15,900	80,500	34,500	47,100	43,400	41,700	38,600	59,500	19,700	22,000	15,800
10	16,100	15,700	70,800	37,000	46,700	38,500	41,700	39,100	58,700	25,200	26,300	18,200
11	14,300	14,900	63,900	39,400	46,200	36,000	42,000	38,700	57,800	24,300	19,000	24,500
12	14,300	12,300	59,000	38,600	45,500	40,700	43,600	35,700	53,900	23,100	14,500	23,700
13	20,700	11,400	55,000	38,100	44,700	45,900	43,400	32,000	50,000	24,700	20,500	24,000
14	29,900	12,200	52,100	35,800	43,000	46,700	38,400	32,200	47,100	24,000	22,700	24,300
15	28,900	14,000	49,300	36,300	42,800	45,500	29,700	32,100	44,200	23,000	22,600	18,400
16	20,000	14,500	47,700	35,800	43,100	44,900	32,300	38,600	42,200	22,500	23,600	15,000
17	19,600	16,500	42,700	39,200	42,000	44,700	39,600	41,200	38,600	24,600	24,400	15,000
18	17,200	13,800	40,200	40,200	41,700	45,600	39,400	39,500	36,700	24,900	21,500	14,700
19	17,600	11,800	40,400	42,200	44,200	46,300	40,100	39,000	35,900	22,300	16,100	17,200
20	16,400	11,300	44,100	44,600	45,700	46,800	40,200	38,200	34,000	21,900	20,200	23,700
21	17,200	15,100	46,600	46,200	48,200	48,200	36,100	37,300	31,800	22,200	24,300	24,200
22	12,900	16,400	46,000	48,200	56,000	49,600	36,200	38,900	29,900	21,800	23,400	18,800
23	12,300	20,100	44,100	48,400	57,000	49,300	39,200	39,800	26,200	21,900	22,100	15,000
24	18,300	34,100	43,400	49,100	57,500	49,400	40,700	38,300	23,100	24,400	22,900	13,200
25	17,200	60,800	43,500	49,300	58,000	49,300	42,700	38,900	20,300	25,700	20,400	14,500
26	17,100	81,900	45,100	50,000	58,900	49,300	44,100	37,800	22,100	23,500	15,900	23,700
27	18,800	124,000	45,500	50,600	57,100	48,600	43,500	38,000	22,300	21,800	15,500	23,000
28	16,900	130,000	44,300	52,000	56,200	48,900	44,300	37,400	25,400	21,600	21,600	24,300
29	16,100	111,000	43,400	52,500	-----	48,300	43,000	36,100	25,200	18,000	21,300	20,700
30	13,400	95,500	42,700	51,700	-----	47,300	44,600	35,200	22,500	18,000	23,700	16,700
31	19,200	-----	41,800	51,900	-----	46,600	-----	36,300	-----	19,700	21,800	-----
TOTAL	522,700	986,400	1,861.4M	1,326.2M	1,387.6M	1,436.7M	1,218.5M	1,179.6M	1,097.8M	690,400	644,200	586,400
MEAN	16,860	32,880	60,050	42,780	49,560	46,350	40,620	38,050	36,590	22,270	20,780	19,550
MAX	29,900	130,000	115,000	52,500	58,900	54,300	44,900	42,400	59,500	25,700	26,300	24,500
MIN	11,500	11,300	40,200	34,500	41,700	36,000	29,700	32,000	20,300	16,900	14,500	13,200
AC-FT	1,037M	1,957M	3,692M	2,631M	2,752M	2,850M	2,417M	2,340M	2,177M	1,369M	1,278M	1,163M
CAL YR 1973	TOTAL	16,584,300	MEAN	45,440	MAX	229,000	MIN	11,300	AC-FT	32,890,000		
WTR YR 1974	TOTAL	12,937,900	MEAN	35,450	MAX	130,000	MIN	11,300	AC-FT	25,660,000		

07075000 Middle Fork Little Red River at Shirley, Ark.

LOCATION.--Lat 35°39'10", long 92°19'10", in SW¼ sec.20, T.12 N., R.12 W., Van Buren County, on right bank 0.5 mi (0.8 km) downstream from Sugar Camp (or Weavers) Creek, 1.0 mi (1.6 km) east of Shirley, and at mile 122.0 (196.3 km).

DRAINAGE AREA.--302 mi² (782 km²).

PERIOD OF RECORD.--February 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 483.12 ft (147.255 m) above mean sea level. Prior to June 6, 1939, nonrecording gage at site 70 ft (21 m) upstream at same datum.

AVERAGE DISCHARGE.--35 years, 473 ft³/s (13.4 m³/s) 21.85 in/yr (555 mm/yr), 342,700 acre-ft/yr (423 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 39,200 ft³/s (1,110 m³/s) Dec. 4, gage height, 24.18 ft (7.370 m); minimum, 4.6 ft³/s (0.130 m³/s) Aug. 6, 7.

Period of record: Maximum discharge, 101,000 ft³/s (2,860 m³/s) Jan. 24, 1949, gage height, 28.3 ft (8.63 m) in gage well; about 31 ft (9.4 m) on nonrecording gage, from stage-relation curve, from rating curve extended above 60,000 ft³/s (1,700 m³/s); no flow at times.

NOTE.--Maximum gage heights published prior to 1949 water year were referred to nonrecording gage.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	375	875	477	616	445	305	1,070	401	36	15	17
2	38	342	714	401	554	405	271	1,520	347	33	13	21
3	33	264	1,590	357	485	369	285	1,650	289	30	11	199
4	29	226	19,700	317	413	334	489	3,120	243	27	9.1	106
5	25	254	3,410	289	360	340	365	2,550	430	25	7.0	47
6	23	263	1,720	277	325	454	290	1,280	2,190	23	5.1	30
7	21	223	1,180	273	289	485	274	928	10,900	20	4.9	28
8	20	195	941	255	255	425	595	718	4,650	18	7.9	29
9	17	171	786	240	227	385	592	622	3,950	20	11	25
10	16	148	653	355	202	357	482	665	2,620	20	19	22
11	17	132	553	753	181	1,300	482	579	1,370	16	19	44
12	56	119	485	662	160	1,630	1,320	1,050	984	14	20	65
13	13,800	108	437	545	151	1,060	1,110	781	750	12	21	65
14	3,120	101	389	493	145	835	1,320	588	601	11	21	54
15	1,330	97	345	465	135	701	1,190	986	506	12	20	74
16	872	93	313	429	135	655	917	864	486	11	20	83
17	626	84	262	393	143	578	736	628	462	12	20	67
18	481	86	227	365	143	505	621	493	385	13	20	51
19	385	90	481	347	181	472	541	393	328	12	19	41
20	309	259	2,410	379	213	445	469	317	273	10	18	41
21	255	1,420	1,260	458	792	627	630	313	223	8.8	18	53
22	213	947	954	437	3,130	749	2,940	593	177	7.9	18	168
23	174	1,080	825	401	1,440	670	1,680	794	132	7.0	17	167
24	145	12,300	1,390	369	1,020	660	1,110	488	101	6.4	17	109
25	124	12,700	1,560	341	782	596	860	427	84	6.9	16	90
26	106	7,890	1,160	381	643	541	701	1,190	72	9.8	15	72
27	113	3,640	917	617	565	493	589	1,220	61	11	16	62
28	116	2,410	740	1,080	501	457	501	837	52	14	16	58
29	108	1,480	680	1,090	-----	430	429	627	46	17	21	55
30	99	1,100	655	864	-----	386	514	503	40	17	21	47
31	204	-----	564	719	-----	340	-----	438	-----	16	18	-----
TOTAL	22,919	48,597	48,176	14,829	14,186	18,129	22,608	28,232	33,153	496.8	494.0	1,990
MEAN	739	1,620	1,554	478	507	585	754	911	1,105	16.0	15.9	66.3
MAX	13,800	12,700	19,700	1,090	3,130	1,630	2,940	3,120	10,900	36	21	199
MIN	16	84	227	240	135	334	271	313	40	6.4	4.9	17
CFSM	2.45	5.36	5.15	1.58	1.68	1.94	2.50	3.02	3.66	.05	.05	.22
IN.	2.82	5.99	5.93	1.83	1.75	2.23	2.78	3.48	4.08	.06	.06	.25
AC-FT	45,460	96,390	95,560	29,410	28,140	35,960	44,840	56,000	65,760	985	980	3,950

CAL YR 1973	TOTAL	380,688.5	MEAN	1,043	MAX	20,000	MIN	7.8	CFSM	3.45	IN	46.89	AC-FT	755,100
WTR YR 1974	TOTAL	253,809.8	MEAN	695	MAX	19,700	MIN	4.9	CFSM	2.30	IN	31.26	AC-FT	503,400

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
10-13	1100	22.13	29,100	5-4	1900	15.75	10,000
11-25	0700	20.41	22,300	6-7	1830	18.67	16,800
12-4	0830	24.18	39,200				

07075300 South Fork Little Red River at Clinton, Ark.

LOCATION.--Lat 35°35'29", long 92°27'20", in SW¼ sec.14, T.11 N., R.14 W., Van Buren County, near right bank on upstream side of bridge on U.S. Highway 65 at Clinton, 0.2 mi (0.3 km) upstream from Archey Creek, and at mile 23.7 (38.1 km).

DRAINAGE AREA.--148 mi² (383 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 481.11 ft (146.642 m) above mean sea level. Prior to Oct. 1, 1966, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--13 years, 233 ft³/s (6.60 m³/s), 21.82 in/yr (554 mm/yr), 168,800 acre-ft/yr (208 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 22,400 ft³/s (634 m³/s) Dec. 4, gage height, 23.20 ft (7.071 m); minimum, 4.8 ft³/s (0.14 m³/s) Aug. 6, 7-8, 9.

Period of record: Maximum discharge, 24,300 ft³/s (688 m³/s) Mar. 9, 1964, gage height, 24.00 ft (7.315 m); no flow at times.

REVISIONS.--The maximum discharge for the water year 1964 has been revised to 24,300 ft³/s (688 m³/s) Mar. 9, 1964, gage height, 24.00 ft (7.315 m), superseding figures published in WSP 1920.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WRD Ark. 1968: 1962, 1964. WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	168	491	248	336	275	142	585	253	26	12	21
2	19	154	404	216	334	259	132	668	184	24	11	30
3	18	138	1,210	200	288	243	137	652	163	19	10	176
4	63	145	12,100	184	248	229	136	701	139	17	10	91
5	77	153	1,850	174	228	237	124	574	804	16	8.0	62
6	47	135	1,060	169	211	263	111	408	1,480	15	5.7	45
7	36	126	708	161	194	268	106	325	5,020	14	4.8	35
8	33	121	539	154	176	252	161	270	2,270	14	4.8	30
9	30	115	431	148	163	239	166	256	2,620	14	5.1	28
10	28	108	350	243	154	230	152	277	1,560	13	5.4	25
11	29	102	310	376	143	626	167	252	846	12	6.0	29
12	84	99	276	289	135	758	691	431	540	12	9.8	71
13	8,090	97	252	256	129	503	518	305	396	12	10	82
14	1,770	95	228	243	127	402	742	237	313	13	22	91
15	842	93	204	232	126	347	635	220	259	16	26	64
16	522	90	176	217	124	300	456	197	314	22	22	46
17	375	88	161	204	124	255	365	168	230	19	19	41
18	292	95	154	194	125	228	307	145	188	17	16	37
19	243	106	285	186	191	217	273	128	158	17	16	34
20	206	223	819	191	206	216	232	113	134	16	16	35
21	178	871	603	202	610	314	358	102	116	14	16	106
22	157	492	465	189	1,240	313	2,150	115	97	12	15	97
23	141	523	415	182	733	289	1,070	124	82	9.8	13	81
24	130	3,380	726	172	533	276	670	106	69	9.2	12	67
25	118	4,150	917	163	417	245	476	102	61	9.8	12	56
26	109	3,810	681	202	359	225	385	523	52	16	11	46
27	105	1,950	518	351	322	208	320	421	45	42	10	38
28	105	1,390	432	637	298	198	265	299	40	26	10	31
29	104	896	379	562	-----	184	218	235	34	22	15	28
30	99	640	327	456	-----	168	411	188	30	18	17	30
31	125	-----	289	387	-----	154	-----	294	-----	14	21	-----
TOTAL	14,196	20,553	27,760	7,788	8,274	8,921	12,076	9,421	18,497	520.8	391.6	1,653
MEAN	458	685	895	251	296	288	403	304	617	16.8	12.6	55.1
MAX	8,090	4,150	12,100	637	1,240	758	2,150	701	5,020	42	26	176
MIN	18	88	154	148	124	154	106	102	30	9.2	4.8	21
CF5M	3.09	4.63	6.05	1.70	2.00	1.95	2.72	2.05	4.17	.11	.09	.37
1N.	3.57	5.17	6.98	1.96	2.08	2.24	3.04	2.37	4.65	.13	.10	.42
AC-FT	28,160	40,770	55,060	15,450	16,410	17,690	23,950	18,690	36,690	1,030	777	3,280

CAL YR 1973	TOTAL 203,255.0	MEAN 557	MAX 12,100	MIN 1.7	CF5M 3.76	1N 51.09	AC-FT 403,200
WTR YR 1974	TOTAL 130,051.4	MEAN 356	MAX 12,100	MIN 4.8	CF5M 2.41	1N 32.69	AC-FT 258,000

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
10-13	1230	20.27	15,800	12-4	0700	23.20	22,400
11-25	0400	15.60	6,960	6-7	1600	16.10	7,770

WHITE RIVER BASIN

07075900 Greers Ferry Lake near Heber Springs, Ark.

LOCATION.--Lat 35°31'15", long 91°59'42", in SE¼ sec.6, T.10 N., R.9 W., Cleburne County, on State Highway 25 at Greers Ferry Dam on Little Red River, 2.5 mi (4.0 km) northeast of Heber Springs, 5.5 mi (8.8 km) upstream from Canoe Creek, and at mile 79.0 (127.1 km).

DRAINAGE AREA.--1,153 mi² (2,986 km²).

PERIOD OF RECORD.--November 1961 to current year. Prior to October 1969, published as Greers Ferry Reservoir near Heber Springs.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Mar. 16, 1963, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum contents, 2,298,000 acre-ft (2.83 km³) Dec. 10, elevation, 472.59 ft (144.045 m); minimum, 1,734,000 acre-ft (2.14 km³) Oct. 11, elevation, 455.24 ft (138.757 m).

Period of record: Maximum contents, 2,724,000 acre-ft (3.36 km³) May 9, 1973, elevation, 483.97 ft (147.514 m); minimum since initial filling to bottom of power-pool level, 1,480,000 acre-ft (1.82 km³) Dec. 3, 1966, elevation, 446.30 ft (136.032 m).

REMARKS.--Lake is formed by concrete-gravity dam. Storage for purpose of filling to power-pool level began on Mar. 30, 1962, and bottom of power pool was first reached Mar. 10, 1964. Capacity between elevations 461.0 ft (140.51 m) and 487.0 ft (148.44 m) is 934,000 acre-ft (1.15 km³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates.....	489.0 (149.05 m)	2,926,500 (3.61 km ³)
Top of designated flood-control pool....	487.0 (148.44 m)	2,844,500 (3.51 km ³)
Top of designated power pool.....	461.0 (140.51 m)	1,910,500 (2.36 km ³)
Crest of gated spillway.....	453.0 (138.07 m)	1,668,000 (2.06 km ³)
Bottom of designated power pool.....	435.0 (132.59 m)	1,194,000 (1.47 km ³)
Bottom of lowest outlet.....	283.0 (86.2 m)	640 (789,000 m ³)

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1973: Drainage area.

Capacity table (elevation, in feet, and contents, in thousands or acre-feet)

455 (138.7 m)	1,727 (2.13 km ³)	469 (143.0 m)	2,173 (2.68 km ³)
459 (139.9 m)	1,848 (2.28 km ³)	473 (144.2 m)	2,312 (2.85 km ³)
464 (141.4 m)	2,006 (2.47 km ³)		

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.762	1.830	2.106	2.266	2.133	1.956	1.929	1.935	1.969	2.155	1.915	1.786
2	1.755	1.832	2.108	2.261	2.128	1.959	1.926	1.935	1.971	2.146	1.907	1.790
3	1.751	1.832	2.130	2.255	2.121	1.962	1.923	1.938	1.970	2.138	1.906	1.789
4	1.750	1.835	2.259	2.248	2.112	1.956	1.917	1.949	1.970	2.136	1.904	1.789
5	1.750	1.836	2.277	2.242	2.103	1.950	1.912	1.958	1.975	2.132	1.897	1.787
6	1.749	1.835	2.286	2.239	2.096	1.946	1.912	1.957	1.999	2.127	1.890	1.786
7	1.748	1.834	2.290	2.236	2.086	1.941	1.917	1.954	2.094	2.124	1.886	1.786
8	1.743	1.833	2.293	2.233	2.073	1.938	1.915	1.952	2.124	2.114	1.880	1.785
9	1.740	1.832	2.296	2.228	2.064	1.934	1.913	1.948	2.161	2.102	1.876	1.783
10	1.738	1.832	2.292	2.234	2.055	1.929	1.911	1.945	2.177	2.091	1.877	1.782
11	1.738	1.833	2.291	2.236	2.044	1.939	1.913	1.949	2.186	2.081	1.875	1.779
12	1.743	1.832	2.289	2.235	2.031	1.942	1.921	1.953	2.189	2.075	1.870	1.776
13	1.822	1.830	2.284	2.235	2.017	1.946	1.929	1.949	2.190	2.070	1.866	1.776
14	1.840	1.829	2.280	2.229	2.004	1.947	1.940	1.953	2.192	2.067	1.862	1.775
15	1.843	1.828	2.276	2.226	1.993	1.948	1.940	1.951	2.192	2.058	1.855	1.776
16	1.846	1.826	2.271	2.221	1.988	1.946	1.937	1.947	2.193	2.049	1.852	1.775
17	1.847	1.826	2.268	2.214	1.983	1.944	1.933	1.942	2.191	2.040	1.850	1.772
18	1.847	1.830	2.264	2.207	1.971	1.942	1.928	1.945	2.190	2.032	1.850	1.768
19	1.842	1.830	2.266	2.200	1.959	1.941	1.923	1.945	2.189	2.023	1.845	1.764
20	1.844	1.837	2.272	2.194	1.946	1.941	1.926	1.940	2.188	2.016	1.837	1.762
21	1.845	1.844	2.273	2.187	1.958	1.938	1.934	1.938	2.186	2.010	1.829	1.762
22	1.840	1.848	2.273	2.181	1.971	1.938	1.962	1.941	2.186	1.999	1.823	1.762
23	1.836	1.866	2.271	2.173	1.981	1.939	1.965	1.940	2.185	1.989	1.817	1.758
24	1.832	1.932	2.275	2.165	1.978	1.942	1.963	1.936	2.182	1.981	1.815	1.758
25	1.828	1.990	2.278	2.155	1.973	1.940	1.958	1.941	2.177	1.972	1.814	1.757
26	1.826	2.048	2.281	2.148	1.971	1.938	1.951	1.951	2.174	1.963	1.807	1.756
27	1.828	2.076	2.280	2.142	1.968	1.936	1.948	1.958	2.171	1.957	1.800	1.754
28	1.828	2.090	2.277	2.146	1.962	1.935	1.948	1.958	2.167	1.951	1.794	1.756
29	1.826	2.098	2.276	2.144	-----	1.929	1.942	1.957	2.165	1.941	1.791	1.754
30	1.826	2.103	2.273	2.140	-----	1.930	1.936	1.956	2.164	1.932	1.789	1.749
31	1.829	-----	2.270	2.137	-----	1.932	-----	1.966	-----	1.922	1.787	-----
MAX	1.847	2.103	2.296	2.266	2.133	1.962	1.965	1.966	2.193	2.155	1.915	1.790
MIN	1.738	1.826	2.106	2.137	1.946	1.929	1.911	1.935	1.969	1.922	1.787	1.749
(+)	458.39	466.94	471.79	467.93	462.63	461.70	461.82	462.75	468.74	461.37	457.01	455.72
(-)	+65	+274	+167	-133	-175	-30	+4	+30	+198	-242	-135	-38

CAL YR 1973..... + 311

WTR YR 1974..... - 15

+ ELEVATION, IN FEET, AT END OF MONTH.

+ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.

07076000 Little Red River near Heber Springs, Ark.

LOCATION.--Lat 35°31'02", long 91°59'50", in NE¼ sec.7, T.10 N., R.9 W., Cleburne County, on right bank 1,600 ft (488 m) downstream from Greers Ferry Dam, 3.0 mi (4.8 km) northeast of Heber Springs, and at mile 78.8 (126.8 km).

DRAINAGE AREA.--1,153 mi² (2,986 km²).

PERIOD OF RECORD.--September 1927 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 261.78 ft (79.791 m) above mean sea level. Prior to Dec. 15, 1938, nonrecording gage at site 2.2 mi (3.5 km) upstream at datum 8.97 ft (2.734 m) higher and Dec. 15, 1938, to Sept. 30, 1960, water-stage recorder at site 1.8 mi (2.9 km) upstream at datum 10.03 ft (3.057 m) higher.

AVERAGE DISCHARGE.--47 years, 1,762 ft³/s (49.9 m³/s), 1,277,000 acre-ft/yr (1,570 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,200 ft³/s (232 m³/s) Sept. 30, gage height, 16.21 ft (4.941 m); minimum daily, 24 ft³/s (0.68 m³/s) Mar. 31.

Period of record: Maximum discharge, 117,000 ft³/s (3,310 m³/s) Jan. 25, 1949, gage height, 46.53 ft (14.182 m) in gage well and 46.9 ft (14.30 m) from outside gage, site and datum then in use; no flow at times in some years.

Maximum stage since at least 1927, that of Jan. 25, 1949. Flood in April 1927 reached a stage of 44.0 ft (13.41 m), original site and datum, discharge, 78,900 ft³/s (2,230 m³/s).

REMARKS.--Records good. Flow completely regulated since Mar. 30, 1962, by Greers Ferry Lake (see station 07075900). Some regulation Oct. 1, 1960, to Feb. 28, 1962, by construction of Greers Ferry Dam. A fish hatchery diverts about 20 ft³/s (0.57 m³/s) from Greers Ferry Lake and returns an equal amount below the station. Water-quality records at this site and near Wilburn, 10.0 (16.1 km) downstream, for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	822	55	1,200	3,010	4,960	4,420	2,620	3,910	307	4,180	3,620	368
2	2,400	526	1,210	3,570	4,840	101	2,300	3,100	369	4,110	3,300	286
3	2,780	59	2,930	3,220	5,090	48	3,040	3,040	2,020	4,090	625	256
4	561	53	1,920	3,560	5,260	4,410	4,600	80	2,140	1,100	563	51
5	320	198	1,350	3,100	4,830	4,600	2,620	50	2,470	2,080	2,570	534
6	191	997	1,220	3,000	4,950	4,090	70	3,550	2,080	2,130	3,410	401
7	205	1,090	1,190	2,700	5,300	4,130	51	3,010	1,460	1,080	1,370	51
8	2,590	531	1,180	2,320	6,820	3,230	1,620	3,040	248	5,150	2,680	296
9	1,120	627	1,140	3,100	5,310	3,330	2,200	3,110	150	5,420	2,950	945
10	1,410	61	2,910	3,180	5,010	4,720	1,570	3,180	1,270	5,150	303	605
11	473	54	2,510	3,130	6,370	1,290	1,310	83	797	4,220	339	1,640
12	207	797	2,880	3,060	7,260	2,490	1,000	214	1,290	3,690	3,040	1,770
13	269	671	2,890	3,000	7,400	2,510	90	2,890	1,290	1,710	1,950	613
14	181	666	2,880	3,540	7,480	2,430	51	2,080	1,230	1,310	2,370	262
15	1,690	997	3,040	4,030	6,570	2,420	3,830	3,070	964	4,340	3,050	274
16	605	948	2,970	4,070	3,670	2,400	4,270	3,690	1,010	4,020	2,820	302
17	1,230	62	3,070	4,900	2,230	2,430	4,290	3,090	1,230	3,970	1,050	1,530
18	1,080	52	3,040	5,010	7,370	2,340	4,360	76	1,010	3,880	269	1,880
19	2,790	678	3,070	5,060	7,370	2,560	4,020	616	1,120	4,270	3,040	2,290
20	73	627	3,220	5,030	7,640	2,550	78	2,680	1,500	3,530	3,570	1,090
21	49	637	3,050	5,060	6,220	2,520	54	2,960	1,220	3,370	3,210	266
22	3,070	62	3,070	5,120	3,690	2,540	887	3,060	337	4,210	2,970	271
23	2,660	876	3,070	5,460	1,380	1,690	4,140	3,010	367	4,570	3,040	1,220
24	1,960	246	3,070	5,100	4,350	57	4,970	2,940	1,510	4,340	708	713
25	2,180	69	3,100	5,710	4,990	2,480	5,150	347	1,520	4,460	265	780
26	1,430	967	3,050	6,070	3,460	2,540	5,410	274	1,510	4,220	3,170	402
27	65	1,100	3,120	5,330	3,560	2,540	3,710	269	1,490	2,420	3,170	768
28	50	1,200	3,160	5,080	4,110	2,530	1,770	2,130	1,620	2,960	2,810	289
29	730	1,250	3,050	5,030	-----	2,550	4,160	2,040	569	4,570	2,110	275
30	292	1,190	3,050	4,770	-----	81	5,080	2,260	534	3,950	1,030	2,670
31	362	-----	3,310	4,320	-----	24	-----	2,210	-----	4,280	381	-----
TOTAL	33,845	17,346	79,920	128,640	147,490	76,051	79,321	66,059	34,632	112,780	65,753	23,098
MEAN	1,092	578	2,578	4,150	5,268	2,453	2,644	2,131	1,154	3,638	2,121	770
MAX	3,070	1,250	3,310	6,070	7,640	4,720	5,410	3,910	2,470	5,420	3,620	2,670
MIN	49	52	1,140	2,320	1,380	24	51	50	150	1,080	265	51
AC-FT	67,130	34,410	158,500	255,200	292,500	150,800	157,300	131,000	68,690	223,700	130,400	45,810
CAL YR 1973	TOTAL	1,171,878	MEAN	3,211	MAX	7,780	MIN	49	AC-FT	2,324,000		
WTR YR 1974	TOTAL	864,935	MEAN	2,370	MAX	7,640	MIN	24	AC-FT	1,716,000		

WHITE RIVER BASIN

07076850 Cypress Bayou near Beebe, Ark.

LOCATION.--Lat 34°01'30", long 91°52'23" (revised), in SW¼SW¼ sec.28, T.5 N., R.8 W., White-Lonoke County, on downstream side of bridge on State Highway 31, 2.1 mi (3.4 km) downstream from Mill Creek, 3.2 mi (5.1 km) south of Beebe, and 4.7 mi (7.6 km) upstream from Pigeon Roost Creek.

DRAINAGE AREA.--166 mi² (430 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 194.54 ft (59.296 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 216 ft³/s (6.12 m³/s), 17.67 in/yr (449 mm/yr), 156,500 acre-ft/yr (193 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 9,260 ft³/s (262 m³/s) June 8, gage height, 13.94 ft (4.249 m); no flow at times.
Period of record: Maximum discharge, 21,000 ft³/s (595 m³/s) Jan. 30, 1969, gage height, 16.09 ft (4.904 m); no flow at times.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	133	750	150	592	107	35	48	708	1.6	2.0	.04
2	.12	201	550	110	354	97	31	48	683	1.5	1.3	4.6
3	.11	169	450	90	212	90	35	79	561	1.2	1.5	1.4
4	.07	95	1,700	70	171	84	78	77	314	1.0	.80	6.5
5	.04	73	3,900	60	129	75	74	82	304	.75	.34	69
6	0	101	2,900	50	104	65	53	50	596	.65	.24	38
7	.85	79	2,100	60	92	75	43	33	2,250	.56	.16	13
8	3.5	60	1,600	230	81	162	39	23	8,000	.44	.95	6.6
9	36	44	1,200	550	70	124	32	71	5,340	.34	11	3.3
10	24	34	940	1,010	60	81	37	288	2,010	.27	.34	2.1
11	22	27	720	2,250	57	147	37	216	978	.22	1.4	1.3
12	135	21	560	2,280	52	432	212	93	719	.22	.80	.70
13	222	17	450	1,170	47	569	442	48	549	.19	.52	.44
14	289	22	360	720	46	621	436	31	320	.16	.34	.30
15	355	18	290	560	52	470	285	150	152	.14	.24	.16
16	267	13	230	405	75	218	142	458	109	.12	.24	.14
17	139	10	190	290	125	115	85	478	87	.08	.19	.08
18	53	18	170	211	134	84	58	281	132	.01	2.0	.04
19	28	189	150	186	288	69	45	102	267	0	2.2	.03
20	22	337	130	230	438	66	41	47	208	0	.40	.02
21	21	391	120	407	472	74	141	38	87	0	.19	.06
22	9.6	424	230	442	764	129	3,860	136	34	0	.08	.03
23	6.7	430	210	372	1,030	144	7,360	252	19	0	.03	.01
24	4.8	2,180	170	278	916	106	2,600	217	15	0	.01	.01
25	11	5,510	150	228	658	88	878	105	9.7	0	0	.08
26	4.9	4,360	250	197	367	74	591	53	7.9	.80	0	.08
27	3.1	4,730	500	310	188	61	348	49	14	7.4	0	.06
28	3.7	3,210	580	618	128	55	175	50	3.5	14	0	.03
29	3.1	1,710	400	1,170	-----	53	102	36	2.7	19	.01	.02
30	6.6	1,000	280	1,310	-----	50	64	24	2.1	8.3	.07	.01
31	18	-----	210	794	-----	43	-----	192	-----	3.6	.06	-----
TOTAL	1,689.19	25,606	22,440	16,808	7,702	4,628	18,359	3,855	24,481.9	62.55	27.41	148.14
MEAN	54.5	854	724	542	275	149	612	124	816	2.02	.88	4.94
MAX	355	5,510	3,900	2,280	1,030	621	7,360	478	8,000	19	11	69
MIN	0	10	120	50	46	43	31	23	2.1	0	0	.01
CFSM	.33	5.14	4.36	3.27	1.66	.90	3.69	.75	4.92	.01	.005	.03
IN.	.38	5.74	5.03	3.77	1.73	1.04	4.11	.86	5.49	.01	.006	.03
AC-FT	3,350	50,790	44,510	33,340	15,280	9,180	36,420	7,650	48,560	124	54	294

CAL YR 1973 TOTAL 146,549.39 MEAN 402 MAX 6,580 MIN 0 CFSM 2.42 IN 32.84 AC-FT 290,700
WTR YR 1974 TOTAL 125,807.19 MEAN 345 MAX 8,000 MIN 0 CFSM 2.08 IN 28.19 AC-FT 249,500

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-25	0800	13.14	5,890	4-23	1300	13.67	8,180
12- 5	UNKNOWN	UNKNOWN	UNKNOWN	6- 8	1500	13.94	9,260
1-12	0200	12.12	2,610				

NOTE.--No gage-height record Dec. 1 Jan. 10.

07077380 Cache River at Egypt, Ark.

LOCATION.--Lat 35°51'28", long 90°56'00", in NW¼SE¼ sec.12, T.14 N., R.1 E., Craighead County, on right bank on downstream side of bridge on State Highway 91, 1.0 mi (1.6 km) southeast of Egypt, 2.2 mi (3.5 km) northwest of Winesburg, and at mile 143 (230 km).

DRAINAGE AREA.--701 mi² (1,816 km²).

PERIOD OF RECORD.--October 1964 to current year. Daily stages and results of discharge measurements for July 1937 to December 1940, December 1944 to date are published in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 222.99 ft (67.967 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--10 years, 842 ft³/s (23.8 m³/s), 16.38 in/yr (416 mm/yr), 610,000 acre-ft/yr (752 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,900 ft³/s (167 m³/s) Nov. 28, gage height, 20.69 ft (6.306 m); minimum daily, 37 ft³/s (1.05 m³/s) Oct. 12 to Nov. 3.

Period of record: Maximum discharge, 8,940 ft³/s (253 m³/s) Jan. 6, 1966, gage height, 21.88 ft (6.669 m); minimum daily, 19 ft³/s (0.54 m³/s) Nov. 14-17, 1971.

REMARKS.--Records good. Water-quality records on Cache River near Cash, 6.0 mi (9.7 km) downstream for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ark. 1972: 1966. WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	37	5,260	2,280	1,530	1,300	328	463	1,940	130	484	801
2	42	37	4,920	2,100	1,390	1,140	301	428	1,620	125	357	843
3	40	37	4,720	1,950	1,270	1,010	344	401	1,170	119	279	1,860
4	39	38	4,920	1,800	1,150	908	351	478	934	127	228	1,990
5	39	53	4,980	1,650	1,050	834	277	478	1,420	121	200	1,710
6	38	46	5,190	1,500	977	896	247	397	1,340	124	178	1,400
7	38	40	5,200	1,370	902	1,100	233	321	2,400	129	149	1,110
8	38	40	4,840	1,290	829	1,000	353	311	3,020	117	133	789
9	38	40	4,440	1,490	760	893	355	722	2,960	106	129	549
10	38	40	4,200	2,210	691	821	303	565	2,590	117	387	436
11	38	40	3,920	3,010	619	1,500	298	593	1,790	150	461	371
12	37	40	3,630	3,070	542	1,960	1,650	778	1,020	174	487	328
13	37	40	3,340	3,060	480	1,650	1,780	763	684	205	710	313
14	37	39	3,110	2,900	433	1,320	1,630	715	523	218	716	327
15	37	39	2,890	2,530	398	1,120	1,370	1,150	490	197	596	341
16	37	39	2,620	2,330	470	1,090	992	1,420	763	159	463	317
17	37	39	2,300	2,160	581	1,020	784	1,150	610	229	386	269
18	37	39	2,040	2,000	518	924	640	910	494	132	495	225
19	37	219	1,970	1,870	1,370	910	512	818	408	115	831	190
20	37	319	2,600	1,980	1,530	976	420	795	327	115	952	171
21	37	611	2,550	2,170	1,700	1,060	964	939	264	112	915	164
22	37	692	2,310	2,030	2,880	1,180	2,950	1,540	222	110	794	157
23	37	1,190	2,060	2,040	2,980	983	3,270	1,990	199	113	649	152
24	37	3,230	2,330	1,920	2,850	814	3,150	1,610	180	283	530	162
25	37	3,870	2,800	1,680	2,500	682	2,750	1,160	170	555	400	160
26	37	4,520	2,890	1,550	2,010	567	2,040	992	160	684	312	150
27	37	5,230	2,970	1,650	1,690	502	1,470	970	155	737	360	132
28	37	5,790	2,890	2,040	1,460	487	1,090	922	150	735	318	127
29	37	5,850	2,740	2,240	-----	452	753	882	140	714	342	131
30	37	5,620	2,590	1,960	-----	409	546	869	135	669	972	121
31	37	-----	2,440	1,720	-----	365	-----	1,340	-----	606	1,030	-----
TOTAL	1,175	37,864	105,660	63,550	35,560	29,873	32,151	26,870	28,278	8,227	15,243	15,796
MEAN	37.9	1,262	3,408	2,050	1,270	964	1,072	867	943	265	492	527
MAX	47	5,850	5,260	3,070	2,980	1,960	3,270	1,990	3,020	737	1,030	1,990
MIN	37	37	1,970	1,290	398	365	233	311	135	106	129	121
CFSM	.05	1.80	4.86	2.92	1.81	1.38	1.53	1.24	1.35	.38	.70	.75
IN.	.06	2.01	5.61	3.37	1.89	1.59	1.71	1.43	1.50	.44	.81	.84
AC-FT	2,330	75,100	209,600	126,100	70,530	59,250	63,770	53,300	56,090	16,320	30,230	31,330
CAL YR 1973	TOTAL 616,752	MEAN 1,690	MAX 7,940	MIN 37	CFSM 2.41	IN 32.73	AC-FT 1,223,000					
WTR YR 1974	TOTAL 400,247	MEAN 1,097	MAX 5,850	MIN 37	CFSM 1.56	IN 21.24	AC-FT 793,900					

WHITE RIVER BASIN

07077500 Cache River at Patterson, Ark.

07077700 Bayou DeView at Morton, Ark.

NOTE.--Records for 1973 and 1974 water years for the stations listed above are not available in time for inclusion in this report. They will be published in a subsequent report.

07077800 White River at Clarendon, Ark.

LOCATION.--Lat 34°41'08", long 91°18'55", in W½ sec.22, T.1 N., R.3 W., Monroe County, at St. Louis Southwestern Railroad bridge at Clarendon, 1.1 mi (1.8 km) downstream from Cache River, and at mile 100.1 (161.1 km).

DRAINAGE AREA.--25,555 mi² (66,187 km²).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. Gage-height record since 1884 are contained in reports of Mississippi River Commission and National Weather Service. Intermittent records of discharge since 1879 and daily discharges since Jan. 1, 1928 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 139.91 ft (42.645 m) above mean sea level, or 140.02 ft (42.678 m) above mean Gulf level. Prior to Sept. 16, 1970, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--46 years, 29,870 ft³/s (846 m³/s), 21,640,000 acre-ft/yr (26,700 hm³/yr).

EXTREMES.--Water year 1973: Maximum discharge, 191,000 ft³/s (5,410 m³/s) May 3, gage height, 34.97 ft (10.659 m); minimum daily, 12,500 ft³/s (354 m³/s) Oct. 20, 21.
 Water year 1974: Maximum discharge, 133,000 ft³/s (3,770 m³/s) Dec. 10, gage height, 31.41 ft (9.574 m); minimum daily, 14,100 ft³/s (399 m³/s) Nov. 17.
 Period of record: Maximum discharge, 299,000 ft³/s (8,468 m³/s) Apr. 23, 1945; maximum gage height, 39.10 ft (11.921 m) Apr. 24, 1945; minimum discharge, 2,900 ft³/s (82 m³/s) Sept. 4, 1936.
 Maximum stage since at least 1874, 43.3 ft (13.20 m) Apr. 23, 1927.

REMARKS.--Some regulation by Norfork Lake since 1943 (see station 07059500), by Clearwater Lake (Missouri) since 1948, by Bull Shoals Lake since July 24, 1951, 318 mi (512 km) upstream (see station 07054500), by Table Rock Lake (Missouri) since Sept. 9, 1956 (see station 07053400), by Greers Ferry Lake since Mar. 30, 1962 (see station 07075900), and by Beaver Lake since Dec. 26, 1963 (see station 07049690). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,200	19,700	57,400	56,100	59,200	59,000	100,000	186,000	75,700	36,200	33,900	33,200
2	17,800	25,000	55,100	56,000	60,200	58,700	100,000	190,000	71,900	36,000	33,700	33,100
3	18,600	30,500	52,500	56,000	60,700	58,300	99,100	190,000	68,300	35,700	33,500	33,200
4	18,500	34,400	48,800	49,700	61,100	57,200	97,800	189,000	66,600	35,700	33,100	33,200
5	17,800	36,800	45,800	43,900	61,600	56,100	96,000	187,000	64,800	35,600	32,700	33,300
6	16,900	39,200	43,400	43,800	61,600	54,800	94,800	183,000	63,000	35,500	32,000	33,600
7	16,200	43,000	41,500	43,800	61,200	53,400	93,500	176,000	61,900	35,300	31,200	33,800
8	16,300	46,500	39,200	44,900	63,600	51,200	92,500	170,000	61,000	34,900	30,600	34,000
9	16,800	49,900	40,500	45,300	64,200	48,600	92,200	161,000	60,100	34,600	30,200	34,000
10	17,100	54,200	42,800	45,200	65,000	48,000	91,100	155,000	59,200	34,200	30,200	34,000
11	17,000	57,000	44,800	45,200	65,800	49,500	89,500	152,000	58,100	33,700	30,600	33,800
12	16,300	59,500	47,100	45,500	66,600	51,600	87,400	147,000	57,100	33,200	31,100	33,600
13	15,500	61,900	49,300	45,700	68,900	54,000	85,000	143,000	56,400	33,200	31,700	33,600
14	15,000	62,900	51,500	45,900	72,000	56,500	83,700	139,000	55,500	33,500	32,200	33,600
15	14,600	63,500	53,400	45,900	73,600	60,200	82,400	134,000	54,000	33,700	32,500	33,500
16	14,300	64,100	54,000	45,900	74,400	64,600	81,000	136,000	52,400	34,200	32,600	33,500
17	14,100	64,500	54,100	45,800	74,100	69,800	79,400	129,000	50,800	34,400	32,800	33,300
18	13,900	65,800	54,200	45,300	73,500	78,000	80,200	127,000	49,000	34,700	32,800	32,900
19	13,200	67,600	54,200	44,700	72,500	86,400	80,500	125,000	47,800	34,900	33,000	32,600
20	12,500	68,000	53,800	43,000	71,200	93,600	87,400	121,000	46,600	35,100	33,200	32,500
21	12,500	68,200	53,800	43,500	69,200	98,600	94,400	118,000	45,600	35,100	33,300	32,700
22	14,000	68,200	53,500	44,800	67,700	102,000	102,000	112,000	44,400	34,900	33,500	32,900
23	15,600	68,300	53,400	45,700	66,100	104,000	115,000	109,000	43,000	34,700	33,800	32,900
24	16,100	67,900	53,500	47,500	64,700	103,000	128,000	105,000	41,400	34,500	34,000	32,600
25	15,700	68,000	53,500	49,200	63,700	104,000	142,000	101,000	40,000	34,400	34,000	31,700
26	14,800	67,300	53,500	51,800	62,600	104,000	155,000	97,200	38,300	34,200	34,000	30,700
27	14,600	66,200	53,500	53,200	61,400	103,000	169,000	94,100	37,500	34,000	33,900	29,800
28	15,000	64,700	53,500	54,800	60,200	101,000	178,000	90,900	36,900	33,800	33,900	29,000
29	15,600	62,400	53,500	55,700	-----	99,900	172,000	87,700	36,400	33,800	33,800	28,300
30	16,200	60,100	53,500	56,500	-----	98,800	188,000	84,700	36,400	33,800	33,600	27,200
31	17,300	-----	53,500	57,400	-----	99,600	-----	80,400	-----	33,900	33,400	-----
TOTAL	486,000	1,675.3M	1,572.1M	1,497.7M	1,846.6M	2,327.4M	3,236.9M	4,220.0M	1,580.1M	1,071.4M	1,014.8M	976,100
MEAN	15,680	55,840	50,710	48,310	65,950	75,080	107,900	136,100	52,670	34,560	32,740	32,540
MAX	18,600	68,300	57,400	57,400	74,400	104,000	188,000	190,000	75,700	36,200	34,000	34,000
MIN	12,500	19,700	39,200	43,000	59,200	48,000	79,400	80,400	36,400	33,200	30,200	27,200
AC-FT	964,000	3,323M	3,118M	2,971M	3,663M	4,616M	6,420M	8,370M	3,134M	2,125M	2,013M	1,936M
CAL YR 1972	TOTAL	8,730,400	MEAN	23,850	MAX	68,300	MIN	7,800	AC-FT	17,320,000		
WTR YR 1973	TOTAL	21,504,400	MEAN	58,920	MAX	190,000	MIN	12,500	AC-FT	42,650,000		

WHITE RIVER BASIN

07077800 White River at Clarendon, Ark.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25,900	17,000	58,600	61,800	63,700	104,000	53,000	61,800	44,500	37,700	22,300	24,800
2	24,000	16,500	71,700	61,800	64,700	102,000	53,100	61,400	47,600	36,500	22,100	25,200
3	22,600	16,700	88,000	61,800	66,200	98,800	52,800	59,900	47,700	35,500	22,200	25,500
4	21,600	16,900	101,000	61,300	66,400	96,400	52,800	58,600	47,900	34,500	23,100	24,700
5	20,700	16,900	108,000	60,100	66,000	93,500	52,400	57,600	47,900	34,000	23,600	23,600
6	19,500	16,800	114,000	58,800	65,300	90,100	51,600	56,100	48,500	33,600	23,900	22,500
7	17,900	16,700	119,000	57,600	65,000	86,100	50,800	55,200	51,600	32,400	23,700	22,300
8	16,600	16,400	124,000	56,800	63,400	81,500	50,500	53,900	54,700	31,400	23,500	23,000
9	15,800	16,400	129,000	56,800	62,200	77,000	50,000	53,200	57,800	30,200	23,400	24,000
10	15,300	17,000	132,000	58,100	61,300	72,700	49,200	52,500	61,300	29,000	23,300	25,500
11	15,200	17,600	131,000	61,300	60,600	70,000	47,900	51,800	64,100	28,000	23,300	25,900
12	15,000	17,600	131,000	61,300	60,000	67,300	48,800	50,800	67,000	27,800	23,300	25,600
13	15,500	17,200	129,000	63,000	59,000	64,200	48,700	49,900	68,300	28,000	23,200	25,200
14	15,900	16,300	125,000	64,200	60,400	59,500	48,400	48,800	68,200	28,400	23,000	25,900
15	16,900	15,500	116,000	64,700	62,000	56,000	47,900	50,800	67,900	28,300	22,900	26,400
16	19,500	14,500	111,000	64,600	63,000	55,500	47,400	50,300	68,600	28,200	22,900	26,400
17	22,100	14,100	103,000	63,200	63,600	54,700	47,300	48,800	69,000	28,100	23,900	26,000
18	23,100	14,500	95,200	62,000	65,900	54,200	47,300	48,200	68,600	28,000	25,000	24,400
19	23,400	15,500	91,900	60,700	68,800	53,600	47,400	47,300	68,500	28,100	25,900	22,500
20	23,000	16,300	87,400	60,200	71,400	53,400	47,200	46,800	66,500	28,300	26,000	20,900
21	22,400	16,500	77,600	59,900	73,300	54,000	46,900	46,600	64,100	28,300	25,400	19,900
22	21,200	16,400	75,700	58,000	78,000	53,500	51,500	46,500	61,600	28,300	24,700	20,000
23	19,700	16,800	72,200	57,000	82,000	53,000	55,900	46,000	59,200	28,200	24,800	20,300
24	18,600	19,600	70,400	56,500	86,300	53,100	60,400	45,700	55,600	27,900	25,200	20,400
25	17,600	23,900	69,600	56,200	90,300	53,100	64,400	45,400	53,600	27,800	26,500	19,900
26	17,100	30,000	66,100	56,100	93,600	53,200	67,700	45,200	51,100	28,300	26,400	18,400
27	17,400	35,900	65,900	56,500	97,000	53,300	68,900	45,000	48,000	28,800	25,700	17,400
28	17,800	41,800	65,300	58,600	100,000	53,500	67,200	45,000	45,000	24,900	25,000	17,200
29	17,900	45,500	64,100	60,600	-----	53,300	64,700	44,600	42,500	24,400	24,300	18,300
30	17,900	50,900	62,800	61,700	-----	53,200	63,000	44,700	39,600	23,500	24,000	19,600
31	17,700	-----	61,900	62,800	-----	53,000	-----	45,000	-----	22,800	24,200	-----
TOTAL	594,800	623,700	2,917.4M	1,864.0M	1,979.4M	2,076.7M	1,605.1M	1,563.4M	1,706.5M	909,200	746,700	681,700
MEAN	19,190	20,790	94,110	60,130	70,690	66,990	53,500	50,430	56,880	29,330	24,090	22,720
MAX	25,900	50,900	132,000	64,700	100,000	104,000	68,900	61,800	69,000	37,700	26,500	26,400
MIN	15,000	14,100	58,600	56,100	59,000	53,000	46,900	44,600	39,600	22,800	22,100	17,200
AC-FT	1,180M	1,237M	5,787M	3,697M	3,926M	4,119M	3,184M	3,101M	3,385M	1,803M	1,481M	1,352M
CAL YR 1973	TOTAL	21,906,900	MEAN	60,020	MAX	190,000	MIN	14,100	AC-FT	43,450,000		
WTR YR 1974	TOTAL	17,268,600	MEAN	47,310	MAX	132,000	MIN	14,100	AC-FT	34,250,000		

07077950 Big Creek at Poplar Grove, Ark.

LOCATION.--Lat 34°33'20", long 90°50'44", in sec.1, T.2 S., R.2 E., Phillips County, near right bank on downstream side of bridge on U.S. Highway 49, at Poplar Grove, 900 ft (274 m) upstream from Crooked Creek, and 3.9 mi (6.3 km) east of Marvel.

DRAINAGE AREA.--448 mi² (1,160 km²), includes that of Crooked Creek. Area at site used prior to September 30, 1972, 459 mi² (1,189 km²).

PERIOD OF RECORD.--October 1970 to current year. Prior to September 30, 1972, published as 07077952 Big Creek near Poplar Grove. Gage-height record and results of discharge measurements at same site since August 1954 are contained in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 143.00 ft (43.586 m) above mean sea level. Auxiliary water-stage recorder 8.7 mi (14.0 km) downstream at same datum. October 1970 to September 1972, the downstream site was used as the base gage.

EXTREMES.--Current year: Maximum discharge, 4,000 ft³/s (113 m³/s) May 16, gage height, 30.42 ft (9.272 m); minimum, 8.0 ft³/s (0.23 m³/s) Nov. 17, 18, gage height, 12.28 ft (3.743 m).

Period of record: Maximum discharge, 5,910 ft³/s (167 m³/s) Apr. 23, 1973, gage height, 31.74 ft (9.674 m); no flow June 18-27, 1972.

Maximum stage since at least 1954, 31.74 ft (9.674 m) Apr. 23, 1973, discharge, 5,910 ft³/s (167 m³/s). Flood of Feb. 1, 1957, reached a stage of 30.91 ft (9.421 m), at present site and datum, from records of Corps of Engineers.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	78	11	2,160	952	1,320	991	175	1,670	1,840	530	36	459		
2	68	11	2,370	901	1,230	949	157	1,580	2,090	460	35	473		
3	60	10	2,440	882	1,160	901	137	1,470	1,990	400	97	498		
4	52	19	2,540	867	1,100	854	120	1,380	1,840	350	85	513		
5	43	53	2,520	830	1,030	804	102	1,300	1,770	280	48	509		
6	35	50	2,410	800	983	765	88	1,200	1,680	230	39	505		
7	31	35	2,270	777	937	716	79	1,130	1,680	180	36	502		
8	34	22	2,130	761	894	663	78	1,060	2,200	150	33	498		
9	33	16	2,000	845	854	607	83	1,080	2,620	120	34	491		
10	26	14	1,880	1,360	813	552	84	1,080	3,100	90	34	479		
11	20	11	1,760	2,600	770	513	82	1,020	2,870	70	33	470		
12	18	9.2	1,640	2,650	726	500	438	957	2,950	55	35	468		
13	22	8.6	1,510	2,560	681	448	617	880	2,840	35	44	473		
14	41	8.3	1,370	2,580	665	401	519	813	2,610	30	52	465		
15	49	8.3	1,250	2,580	774	374	426	2,150	2,550	30	55	466		
16	38	8.2	1,140	2,500	848	373	384	3,840	2,540	35	67	423		
17	38	8.1	1,040	2,390	854	385	395	3,260	2,320	40	146	399		
18	39	9.3	907	2,280	801	403	403	2,870	2,160	40	247	372		
19	37	18	858	2,160	1,080	408	447	2,580	2,050	35	274	345		
20	36	60	816	2,080	1,140	407	456	2,340	1,920	30	292	315		
21	39	274	768	2,020	1,130	441	451	2,150	1,810	25	313	290		
22	44	334	697	1,910	1,270	404	1,110	2,020	1,700	20	336	287		
23	45	275	623	1,810	1,270	382	1,660	1,880	1,600	17	355	300		
24	43	208	635	1,700	1,230	340	1,810	1,730	1,470	17	367	295		
25	38	185	966	1,590	1,180	301	1,850	1,580	1,160	18	370	294		
26	32	322	1,170	1,490	1,130	265	1,870	1,440	1,010	28	366	298		
27	26	523	1,250	1,440	1,080	241	1,880	1,310	866	31	389	314		
28	22	997	1,230	1,450	1,040	224	1,860	1,160	800	45	361	315		
29	17	1,500	1,150	1,470	-----	230	1,830	995	700	45	377	308		
30	14	1,860	1,080	1,450	-----	245	1,760	850	610	44	418	295		
31	12	-----	1,010	1,390	-----	212	-----	959	-----	41	441	-----		
TOTAL	1,130	6,868.0	45,590	51,075	27,990	15,299	21,351	49,734	57,346	3,521	5,815	12,099		
MEAN	36.5	229	1,471	1,648	1,000	494	712	1,604	1,912	114	188	403		
MAX	78	1,860	2,540	2,650	1,320	991	1,880	3,840	3,100	530	441	513		
MIN	12	8.1	623	761	665	212	78	813	610	17	33	287		
CFSM	.08	.51	3.28	3.68	2.23	1.10	1.59	3.58	4.27	.25	.42	.90		
IN.	.09	.57	3.79	4.24	2.32	1.27	1.77	4.13	4.76	.29	.48	1.00		
AC-FT	2,240	13,620	90,430	101,300	55,520	30,350	42,350	98,650	113,700	6,980	11,530	24,000		
CAL YR 1973	TOTAL	340,110.6	MEAN	932	MAX	5,690	MIN	8.1	CFSM	2.08	IN	28.24	AC-FT	674,600
WTR YR 1974	TOTAL	297,818.0	MEAN	816	MAX	3,840	MIN	8.1	CFSM	1.82	IN	24.73	AC-FT	590,700

ARKANSAS RIVER BASIN

07195000 Osage Creek near Elm Springs, Ark.

LOCATION.--Lat 36°13'19", long 94°17'18", in SW¼NE¼ sec.21, T.18 N., R.31 W., Benton County, on left bank 0.7 mi (1.1 km) downstream from Little Osage Creek, and 3.2 mi (5.1 km) northwest of Elm Springs.

DRAINAGE AREA.--130 mi² (337 km²).

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1731.

GAGE.--Water-stage recorder. Altitude of gage is 1,052 ft (321 m) by barometer.

AVERAGE DISCHARGE.--24 years, 111 ft³/s (3.14 m³/s), 11.60 in/yr (295 mm/yr), 80,420 acre-ft/yr (99.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 22,200 ft³/s (629 m³/s) June 8, gage height, 16.62 ft (5.066 m), from rating curve extended as explained below; minimum, 50 ft³/s (1.42 m³/s) Nov. 19, gage height, 2.26 ft (0.689 m).

Period of record: Maximum discharge, 22,500 ft³/s (637 m³/s) May 19, 1961, gage height, 16.66 ft (5.078 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of peak flow; minimum, 4.7 ft³/s (0.13 m³/s) Sept. 4-6, 1954.

Flood of May 10, 1950, reached a stage of 16.7 ft (5.09 m), from floodmarks, discharge, 22,500 ft³/s (637 m³/s).

REMARKS.--Records good. Low flow slightly regulated by operation of small lake at Cave Springs.

REVISIONS (WATER YEARS).--WRD Ark. 1970: Drainage area. Revised figures of discharge in cubic feet per second for the calendar year 1968, superseding figures published in WRD Ark. 1969, are given herewith:

Year	cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff Inches	Acre-feet
Calendar year 1968	66,689	2,590	46	182	1.41	19.23	132,300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	98	317	210	151	160	160	165	241	165	85	110
2	91	87	288	202	148	150	157	189	185	165	93	210
3	84	77	411	195	142	142	162	160	166	163	82	160
4	80	69	2,880	189	139	139	153	146	157	160	75	120
5	77	67	693	185	139	143	148	134	611	157	77	100
6	77	69	483	179	136	143	141	137	430	153	83	94
7	71	68	402	175	132	143	137	132	2,630	148	85	85
8	67	66	349	173	131	141	134	116	5,810	138	83	110
9	68	65	320	172	129	140	132	162	4,280	127	121	76
10	69	61	295	170	124	176	132	155	839	125	123	79
11	96	57	281	168	121	1,170	141	134	577	123	89	89
12	91	55	268	164	123	399	141	121	471	120	87	78
13	261	60	255	155	123	306	130	114	412	113	85	78
14	132	64	244	153	123	267	123	527	369	106	84	69
15	108	59	232	155	146	322	116	466	336	110	85	62
16	100	59	216	154	193	322	121	258	304	112	85	74
17	92	55	209	152	152	262	119	212	288	109	72	72
18	87	54	206	151	148	245	121	184	270	105	102	63
19	83	51	303	147	167	239	119	165	252	102	83	74
20	75	300	275	144	158	231	114	153	238	97	86	214
21	68	215	242	140	193	265	626	151	230	89	80	134
22	65	145	236	140	218	239	303	145	217	92	78	97
23	68	145	243	138	193	225	210	140	202	95	78	91
24	67	5,630	557	135	174	207	170	141	200	95	76	91
25	66	2,970	347	132	164	199	157	142	200	106	72	82
26	64	1,620	302	145	162	197	148	146	196	108	70	80
27	104	693	276	155	161	192	137	130	188	93	70	82
28	74	497	260	167	162	187	130	122	171	85	82	86
29	68	408	242	165	-----	182	128	122	167	88	78	90
30	71	357	231	159	-----	172	194	119	168	88	76	86
31	128	-----	220	155	-----	165	-----	437	-----	87	74	-----
TOTAL	2,747	14,221	12,083	5,024	4,252	7,470	4,904	5,625	20,805	3,624	2,599	2,936
MEAN	88.6	474	390	162	152	241	163	181	694	117	83.8	97.9
MAX	261	5,630	2,880	210	218	1,170	626	527	5,810	165	123	214
MIN	64	51	206	132	121	139	114	114	157	85	70	62
CFSM	.68	3.65	3.00	1.25	1.17	1.85	1.25	1.39	5.34	.90	.64	.75
IN.	.79	4.07	3.46	1.44	1.22	2.14	1.40	1.61	5.95	1.04	.74	.84
AC-FT	5,450	28,210	23,970	9,970	8,430	14,820	9,730	11,160	41,270	7,190	5,160	5,820
CAL YR 1973	TOTAL 99,749		MEAN 273	MAX 5,630	MIN 51	CFSM 2.10	IN 28.54	AC-FT 197,900				
WTR YR 1974	TOTAL 86,290		MEAN 273	MAX 5,810	MIN 51	CFSM 1.82	IN 24.69	AC-FT 171,200				

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.HT.	DISCHARGE
11-24	0900	14.03	10,300
12- 4	0700	9.77	4,580
6- 8	1530	16.62	22,200

07195800 Flint Creek at Springtown, Ark.

LOCATION.--Lat 36°15'20", long 94°25'50", in NW¼ sec.7, T.18 N., R.32 W., Benton County, on right bank 20 ft (6 m) downstream from State Highway 12, 0.8 mi (1.3 km) southwest of Springtown.

DRAINAGE AREA.--14.2 mi² (36.8 km²).

PERIOD OF RECORD.--June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,173.47 ft (357.674 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 13.6 ft³/s (0.39 m³/s), 13.01 in/yr (330 mm/yr), 9,850 acre-ft/yr (12.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14,600 ft³/s (413 m³/s) June 8, gage height, 17.51 ft (5.337 m), from floodmarks, from rating curve extended as explained below; minimum, 6.4 ft³/s (0.181 m³/s) Aug. 21; minimum gage height, 3.57 ft (1.088 m) Oct. 10, 11.

Period of record: Maximum discharge, 14,600 ft³/s (413 m³/s) June 8, 1974, gage height, 17.51 ft, (5.337 m), from floodmarks, from rating curve extended above 260 ft³/s (7.36 m³/s) on basis of contracted-opening, and flow-over-road measurement of peak flow; no flow for part of July 9, 29, 30, Aug. 7, 1964, result of pumpage for irrigation above gage.

REMARKS.--Records good. Some diversion for irrigation above gage.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	28	71	23	16	17	18	21	48	12	9.9	32
2	16	24	60	21	17	16	17	23	37	11	10	65
3	15	20	128	20	16	15	17	20	30	11	10	48
4	14	18	313	18	15	14	15	20	25	11	10	37
5	13	17	126	18	14	14	14	18	24	11	10	29
6	13	16	88	17	14	13	14	16	40	10	11	24
7	13	15	64	16	14	12	14	15	302	10	11	21
8	12	14	52	16	13	12	14	14	1,730	10	11	18
9	11	13	44	16	13	12	14	23	681	11	25	16
10	11	12	36	16	12	14	14	18	150	11	16	15
11	16	11	32	15	12	32	18	16	90	10	12	14
12	20	11	29	14	12	28	17	15	70	0	11	13
13	52	11	26	15	12	27	16	14	50	9.9	10	12
14	37	11	24	15	12	27	15	88	44	9.7	9.5	12
15	31	11	23	15	14	39	14	76	37	9.6	11	11
16	26	10	21	15	14	46	14	52	30	9.6	11	11
17	22	10	19	14	13	44	14	39	26	9.2	9.5	11
18	19	10	18	14	14	40	14	30	24	9.0	12	11
19	18	9.8	33	14	15	35	14	25	21	8.9	10	12
20	16	49	30	14	14	34	13	21	20	9.1	9.7	29
21	15	42	29	14	21	33	18	19	18	8.9	9.1	23
22	13	35	28	14	25	31	22	17	17	9.0	8.7	20
23	12	31	30	13	25	31	18	15	16	9.7	8.9	17
24	12	1,040	65	13	23	28	17	15	15	10	8.7	16
25	11	345	50	13	21	26	16	17	15	11	8.1	16
26	11	235	43	15	21	24	15	22	14	11	8.0	15
27	23	154	36	15	19	23	14	17	14	10	8.8	14
28	17	123	32	18	14	22	13	14	13	10	11	15
29	15	102	29	18	-----	20	13	13	13	10	9.2	16
30	15	84	27	18	-----	19	24	12	12	9.6	9.1	14
31	33	-----	25	18	-----	19	-----	75	-----	9.8	8.8	-----
TOTAL	570	2,511.8	1,631	495	451	767	470	800	3,626	312.0	328.0	607
MEAN	18.4	83.7	52.6	16.0	16.1	24.7	15.7	25.8	121	10.1	10.6	20.2
MAX	52	1,040	313	23	25	46	24	88	1,730	12	25	65
MIN	11	9.8	18	13	12	12	13	12	12	8.9	8.0	11
CFSM	1.30	5.89	3.70	1.13	1.13	1.74	1.11	1.82	8.52	.71	.75	1.42
IN.	1.49	6.58	4.27	1.30	1.18	2.01	1.23	2.10	9.50	.82	.86	1.59
AC-FT	1,130	4,980	3,240	982	895	1,520	932	1,590	7,190	619	651	1,200

CAL YR 1973	TOTAL	13,063.6	MEAN	35.8	MAX	1,040	MIN	8.5	CFSM	2.52	IN	34.22	AC-FT	25,910
WTR YR 1974	TOTAL	12,568.8	MEAN	34.4	MAX	1,730	MIN	8.0	CFSM	2.42	IN	32.93	AC-FT	24,930

< DISCHARGE (BASE, 260 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-24	0430	12.59	3,850	5-14	1530	5.94	326
12- 3	2315	7.19	578	6- 8	UNKNOWN	17.51	14,600

ARKANSAS RIVER BASIN

07196900 Baron Fork at Dutch Mills, Ark.

LOCATION.--Lat 35°52'48", long 94°29'11", on line between secs.21 and 22, T.14 N., R.33 W., Washington County, near right bank on downstream side of bridge on State Highway 59 at Dutch Mills, 2.2 mi (3.5 km) downstream from Fly Creek, and 2.9 mi (4.7 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--46.0 mi² (119 km²).

PERIOD OF RECORD.--April 1958 to current year. Prior to October 1969, published as Barren Fork at Dutch Mills.

GAGE.--Water-stage recorder. Datum of gage is 986.47 ft (300.676 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 40.4 ft³/s (1.11 m³/s), 11.93 in/yr (303 mm/yr), 29,270 acre-ft/yr (36.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 16,200 ft³/s (459 m³/s) Sept. 20, gage height, 13.48 ft (4.109 m); minimum, 1.1 ft³/s (0.031 m³/s) July 22, 23.
Period of record: Maximum discharge, 17,100 ft³/s (484 m³/s) July 13, 1972, gage height, 13.74 ft (4.188 m), from rating curve extended above 2,900 ft³/s (82.1 m³/s) on basis of contracted-opening measurement at 12,900 ft³/s (365 m³/s); no flow at times in 1963, 1967.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	OEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	19	88	46	33	42	29	175	22	4.2	1.5	870
2	7.6	14	78	43	31	40	26	383	14	3.9	1.8	952
3	5.8	11	1,120	41	29	37	37	142	11	3.5	2.0	177
4	5.8	10	756	37	26	35	33	93	9.7	3.4	2.0	83
5	5.4	9.0	240	37	25	32	29	73	10	4.7	1.8	53
6	5.4	8.2	147	37	24	30	26	58	30	3.8	2.2	44
7	7.1	7.3	110	34	22	29	25	48	265	3.0	2.0	33
8	5.8	7.0	92	34	21	27	24	42	64	2.8	2.2	28
9	4.7	6.1	79	33	20	25	22	37	190	2.6	3.7	24
10	4.4	5.7	67	34	20	29	20	32	100	2.5	13	22
11	28	5.0	60	31	19	390	151	29	80	2.2	5.2	34
12	44	4.7	55	28	18	110	160	26	55	2.0	3.8	69
13	460	4.7	49	27	17	73	69	22	35	1.9	3.4	106
14	68	5.4	45	27	17	60	47	22	30	1.9	16	52
15	41	5.7	44	28	35	90	39	22	26	2.1	14	38
16	29	5.6	40	26	79	93	34	19	23	2.0	19	46
17	23	5.8	37	25	47	67	31	17	19	1.8	8.0	40
18	19	6.2	36	25	68	57	33	16	17	1.7	32	33
19	15	6.1	251	24	200	57	34	14	15	1.7	15	138
20	13	749	134	24	85	56	29	13	13	1.5	8.5	3,290
21	11	148	87	22	229	117	431	12	11	1.3	5.7	247
22	9.9	74	76	22	234	79	254	12	9.8	1.2	4.3	138
23	9.0	615	163	20	119	66	105	11	8.8	1.2	3.9	93
24	8.0	4,300	504	20	84	54	71	11	7.6	1.3	3.7	81
25	7.6	752	170	19	65	49	54	13	7.2	1.5	3.3	198
26	7.1	2,000	114	24	57	45	45	20	6.8	1.7	3.0	123
27	30	311	87	32	50	41	39	13	6.3	1.7	3.5	84
28	19	196	74	63	45	38	35	11	5.9	1.5	12	65
29	13	138	65	48	-----	37	33	9.4	5.5	1.3	8.2	52
30	11	107	59	41	-----	33	556	8.6	4.8	1.5	5.7	51
31	21	-----	54	36	-----	31	-----	40	-----	1.5	4.8	-----
TOTAL	948.2	9,536.5	4,981	988	1,719	1,969	2,521	1,444.0	1,102.4	68.9	215.2	7,264
MEAN	30.6	318	161	31.9	61.4	63.5	84.0	46.6	36.7	2.22	6.94	242
MAX	460	4,300	1,120	63	234	390	556	383	265	4.7	32	3,290
MIN	4.4	4.7	36	19	17	25	20	8.6	4.8	1.2	1.5	22
CFSM	.67	6.91	3.50	.69	1.33	1.38	1.83	1.01	.80	.05	.15	5.26
IN.	.77	7.71	4.03	.80	1.39	1.59	2.04	1.17	.89	.06	.17	5.87
AC-FT	1,880	18,920	9,880	1,960	3,410	3,910	5,000	2,860	2,190	137	427	14,410

CAL YR 1973	TOTAL 43,278.0	MEAN 119	MAX 4,300	MIN 1.8	CFSM 2.59	IN 35.00	AC-FT 85,840
WTR YR 1974	TOTAL 32,757.2	MEAN 89.7	MAX 4,300	MIN 1.2	CFSM 1.95	IN 26.49	AC-FT 64,970

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-20	0945	8.20	3,400	12- 3	2130	11.12	9,090
11-24	1900	13.11	15,000	9-20	0145	13.48	16,200

LOCATION.--Lat 34°55'08", long 94°17'55", in NW¼SW¼ sec.16, T.3 N., R.31 W., Scott County, on right bank at downstream side of highway bridge at Cauthron, 2.9 mi (4.7 km) downstream from Cross Creek, 7.8 mi (12.6 km) downstream from Jones Creek, and at mile 109.0 (175.4 km).

CAL YR 1973	TOTAL	151,213.53	MEAN	414	MAX	6,310	MIN	.30	AC-FT	299,900
WTR YR 1974	TOTAL	101,288.60	MEAN	278	MAX	12,000	MIN	1.1	AC-FT	200,900

ARKANSAS RIVER BASIN

07249400 James Fork near Hackett, Ark.

LOCATION.--Lat 35°09'45", long 94°24'25", in NW¼NW¼ sec.34, T.6 N., R.32 W., Sebastian County, near left bank on downstream side of bridge on State Highway 45, 1.7 mi (2.7 km) south of Hackett, 2.0 mi (3.2 km) downstream from Elder Branch, 2.0 mi (3.2 km) upstream from small tributary, and 3.6 mi (5.8 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--April 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 459.71 ft (140.120 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 132 ft³/s (3.74 m³/s), 12.20 in/yr (310 mm/yr), 95,630 acre-ft/yr (118 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,690 ft³/s (189 m³/s) Apr. 30, gage height, 20.63 ft (6.288 m); minimum, 1.5 ft³/s (0.042 m³/s) Aug. 26, 27, 28, gage height, 0.54 ft (0.165 m).
Period of record: Maximum discharge, 30,000 ft³/s (850 m³/s) May 14, 1968, gage height, 23.00 ft (7.010 m), from rating curve extended above 20,000 ft³/s (566 m³/s); no flow Aug. 16 to Dec. 12, 1963, Sept. 14-21, 1965.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	149	116	58	78	59	2,200	15	8.1	4.1	6.5
2	9.1	11	129	104	55	70	52	2,850	14	7.5	5.5	104
3	7.3	9.4	322	97	51	65	422	1,040	12	6.5	4.5	77
4	6.5	9.0	2,120	86	47	60	200	473	16	5.9	3.8	23
5	5.8	8.9	630	82	43	86	134	276	407	5.9	3.1	17
6	6.2	8.9	303	82	41	80	111	192	170	5.5	2.9	13
7	7.1	9.1	202	75	39	65	97	147	2,980	5.0	3.0	8.9
8	5.6	8.8	168	68	36	56	85	121	1,180	4.9	3.1	6.7
9	5.0	8.2	147	65	34	51	73	101	1,620	4.9	3.1	6.3
10	5.8	8.1	125	117	32	50	64	85	727	4.9	4.2	8.9
11	6.9	7.8	111	100	31	912	72	74	288	4.8	5.1	246
12	9.1	7.7	102	75	30	475	165	64	165	4.5	5.3	145
13	164	8.1	91	69	29	243	113	56	129	4.2	4.2	94
14	95	8.0	79	67	28	179	207	49	104	3.9	3.4	66
15	40	8.2	72	64	28	161	161	44	87	78	2.8	50
16	32	7.7	63	60	30	138	123	39	77	27	2.7	61
17	27	7.9	58	57	33	116	102	34	66	16	3.3	179
18	24	8.9	55	56	33	103	89	30	55	12	4.6	107
19	21	8.6	309	58	52	330	79	26	47	8.7	4.6	73
20	18	26	355	72	57	155	68	22	41	6.7	3.9	136
21	16	68	211	70	263	322	63	18	36	5.4	3.4	199
22	15	32	172	60	417	190	178	16	30	4.7	3.0	107
23	13	838	263	56	197	168	127	14	25	4.1	2.6	72
24	12	2,300	2,190	52	148	173	89	13	21	3.7	2.2	55
25	8.1	2,790	692	48	118	128	72	14	17	3.8	1.8	145
26	9.4	1,250	364	56	103	108	62	40	14	4.3	1.5	139
27	12	664	246	100	93	98	55	48	12	3.7	1.5	93
28	12	331	193	90	86	89	50	30	11	3.2	1.6	72
29	12	209	171	88	-----	82	47	22	9.9	2.8	2.9	58
30	11	168	149	72	-----	72	4,030	18	9.0	2.8	3.4	46
31	13	-----	136	64	-----	64	-----	17	-----	2.8	3.4	-----
TOTAL	640.9	8,843.3	10,377	2,326	2,212	4,967	7,249	8,173	8,384.9	266.2	104.5	2,414.3
MEAN	20.7	295	335	75.0	79.0	160	242	264	279	8.59	3.37	80.5
MAX	164	2,790	2,190	117	417	912	4,030	2,850	2,980	78	5.5	246
MIN	5.0	7.7	55	48	28	50	47	13	9.0	2.8	1.5	6.3
CFSM	.14	2.01	2.28	.51	.54	1.09	1.65	1.80	1.90	.06	.02	.55
IN.	.16	2.24	2.63	.59	.56	1.26	1.83	2.07	2.12	.07	.03	.61
AC-FT	1,270	17,540	20,580	4,610	4,390	9,850	14,380	16,210	16,630	528	207	4,790

CAL YR 1973 TOTAL 110,741.0 MEAN 303 MAX 9,890 MIN 3.2 CFSM 2.06 IN 28.02 AC-FT 219,700
WTR YR 1974 TOTAL 55,958.1 MEAN 153 MAX 4,030 MIN 1.5 CFSM 1.04 IN 14.16 AC-FT 111,000

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-25	0400	18.32	4,040	4-30	0200	20.63	6,690
12-4	0700	16.65	3,160	6-7	1800	19.23	4,770
12-24	0900	16.93	3,290				

07250000 Lee Creek near Van Buren, Ark.

LOCATION.--Lat 35°29'40", long 94°26'58", in SE¼ sec.21, T.12 N., R.27 E., Indian Meridian, Sequoyah County, Okla., on right bank 300 ft (91 m) west of Arkansas-Oklahoma State line, 3.2 mi (5.1 km) downstream from Webb's Creek, 6.8 mi (10.9 km) northwest of Van Buren, and at mile 7.8 (12.6 km).

DRAINAGE AREA.--426 mi² (1,103 km²).

PERIOD OF RECORD.--September 1930 to June 1937, October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 408.04 ft (124.371 m) above mean sea level (Corps of Engineers bench mark). September 1930 to June 1937, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--30 years (1930-36, 1950-74), 504 ft³/s (14.3 m³/s), 16.07 in/yr (408 mm/yr), 365,100 acre-ft/yr (450 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 73,200 ft³/s (2,070 m³/s) Nov. 24, gage height, 29.36 ft (8.949 m); minimum, 0.84 ft³/s (0.024 m³/s) Aug. 8, gage height, 0.64 ft (0.195 m).

Period of record: Maximum discharge, 80,600 ft³/s (2,280 m³/s) May 6, 1960, gage height, 30.30 ft (9.235 m); no flow at times.

Flood of Apr. 15, 1945, reached a stage of about 35.0 ft (10.67 m), from floodmarks, discharge, about 112,000 ft³/s (3,170 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1211: 1931(M). WSP 1441: 1935(M). WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	409	1,140	653	485	613	475	3,600	70	42	1.1	1,520
2	136	361	949	559	452	554	430	4,330	100	36	1.6	8,250
3	108	287	1,560	504	412	509	539	2,990	92	31	1.5	3,860
4	92	243	11,700	452	373	471	791	1,910	78	27	1.3	1,320
5	82	209	4,040	416	349	443	624	1,410	72	26	1.2	723
6	83	183	2,350	390	333	444	534	1,060	102	24	1.1	476
7	90	165	1,670	369	311	412	485	815	4,810	21	1.0	355
8	83	159	1,330	345	286	386	452	648	2,200	17	.87	276
9	72	142	1,110	329	266	361	422	528	6,020	14	1.3	224
10	63	128	921	373	251	499	383	442	2,620	12	3.9	198
11	112	117	784	386	239	6,640	532	376	1,270	11	60	307
12	252	107	683	361	229	3,480	2,260	323	929	10	49	494
13	4,240	99	607	329	218	2,080	1,500	270	721	9.6	35	1,710
14	1,720	93	534	307	211	1,550	1,100	241	492	8.6	59	881
15	844	86	480	299	214	1,350	865	219	376	7.7	78	535
16	529	80	430	290	408	1,180	720	192	479	7.1	139	525
17	377	76	390	282	613	1,020	614	170	360	6.4	111	597
18	289	73	357	278	495	899	545	160	273	5.7	113	495
19	231	72	1,170	270	708	3,960	509	136	216	5.3	115	396
20	192	2,100	2,330	258	971	2,320	487	115	177	4.4	113	12,500
21	164	3,420	1,470	247	1,050	2,950	1,980	101	148	3.7	90	4,770
22	141	1,460	1,200	236	2,480	2,260	8,450	90	125	3.3	75	2,090
23	126	7,640	1,090	225	1,900	1,750	2,800	81	107	2.9	61	1,240
24	112	40,000	6,580	214	1,380	1,380	1,750	74	91	3.1	51	852
25	100	27,900	3,380	201	1,060	1,140	1,280	77	80	3.1	41	1,260
26	90	10,900	2,150	211	895	971	1,000	82	72	2.9	35	1,510
27	140	4,650	1,560	266	771	851	806	78	70	2.4	39	1,090
28	196	2,700	1,250	439	689	752	666	72	65	2.2	42	791
29	184	1,870	1,050	596	-----	671	562	66	55	2.0	37	605
30	163	1,420	892	574	-----	590	4,330	64	47	1.7	35	484
31	516	-----	784	524	-----	524	-----	70	-----	1.3	32	-----
TOTAL	11,710	107,149	55,941	11,183	18,039	43,014	37,891	20,790	22,317	354.4	1,424.87	50,334
MEAN	378	3,572	1,805	361	644	1,388	1,263	671	744	11.4	46.0	1,678
MAX	4,240	40,000	11,700	653	2,480	6,640	8,450	4,330	6,020	42	139	12,500
MIN	63	72	357	201	211	361	383	64	47	1.3	.87	198
CFSM	.89	8.39	4.24	.85	1.51	3.26	2.96	1.58	1.75	.03	.11	3.94
IN.	1.02	9.36	4.88	.98	1.54	3.76	3.31	1.82	1.95	.03	.12	4.40
AC-FT	23,230	212,500	111,000	22,180	35,780	85,320	75,160	41,240	44,270	703	2,830	99,840
CAL YR 1973	TOTAL 506,254.30			MEAN 1,387		MAX 40,000	MIN 3.7	CFSM 3.26	IN 44.21	AC-FT 1,004,000		
WTR YR 1974	TOTAL 380,147.27			MEAN 1,041		MAX 40,000	MIN .87	CFSM 2.44	IN 33.20	AC-FT 754,000		

PEAK DISCHARGE (BASE, 13,000 CF5)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-24	2000	29.36	73,200	6-9	1300	13.34	13,200
12-4	0800	15.23	17,000	9-20	1600	19.53	27,100

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W., Sebastian County, in Dam No. 13 control house on right bank, and at mile 308.9 (497.0 km).

DRAINAGE AREA.--150,547 mi² (389,917 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1927 to current year. Prior to October 1969, published as 07250500 Arkansas River at Van Buren. Gage-height records collected at Fort Smith, 16.3 mi (26.2 km) upstream from 1879 to December 1955, are contained in reports of National Weather Service.

GAGE.--Water-stage and gate position recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, and Oct. 1, 1934, to Dec. 20, 1969, recording gage at site 7.9 mi (12.7 km) upstream at datum 372.36 ft (113.495 m) higher.

AVERAGE DISCHARGE.--47 years, 31,310 ft³/s (887 m³/s), 22,680,000 acre-ft/yr (28,000 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 259,000 ft³/s (7,330 m³/s) Nov. 25, tailwater elevation, 397.72 ft (121.225 m); minimum daily discharge, 252 ft³/s (7.14 m³/s) Aug. 4.

Period of record: Maximum discharge, 850,000 ft³/s (24,100 m³/s) May 12, 1943, gage height, 38.0 ft (11.58 m), from floodmark, site and datum then in use; maximum gage height, 38.10 ft (11.613 m), former site and datum, Apr. 16, 1945; minimum daily discharge, 16 ft³/s (0.45 m³/s) Dec. 7, 1970.

Maximum stage since at least 1833, that of Apr. 16, 1945, and maximum discharge since at least 1833, that of May 12, 1943. Flood in June 1833 reached a stage of 38 ft (11.6 m) on Fort Smith gage, from records collected by National Weather Service. Flood of Apr. 16, 1927, reached a stage of 35.0 ft (10.67 m), former site and datum, from information by local resident.

REMARKS.--Records good. Beginning Apr. 26, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--One discharge measurement furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1211: 1934-36. WSP 1561: 1954. WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40,100	80,800	115,000	107,000	43,900	46,500	111,000	94,600	75,300	35,800	16,800	24,700
2	42,000	80,800	115,000	105,000	44,000	41,300	107,000	103,000	54,600	45,100	13,200	51,000
3	43,600	80,800	117,000	94,300	41,600	36,800	104,000	106,000	47,700	41,200	5,790	64,800
4	44,900	75,800	134,000	61,800	37,400	44,300	76,100	88,200	54,100	40,900	252	61,600
5	45,100	67,200	131,000	43,000	32,200	42,800	63,000	76,800	55,900	35,600	2,660	60,100
6	46,300	56,700	118,000	48,600	39,800	40,700	49,400	80,300	58,000	39,900	3,700	48,400
7	45,900	49,200	115,000	53,400	33,100	41,500	43,200	74,500	94,800	43,900	4,030	41,500
8	45,700	46,500	109,000	48,600	31,700	43,200	41,300	67,700	136,000	35,400	6,480	41,700
9	45,200	52,300	110,000	51,200	36,800	41,100	39,700	69,000	148,000	34,200	14,700	41,900
10	37,300	46,000	110,000	48,900	38,900	41,700	39,900	62,800	164,000	33,700	33,900	41,900
11	48,000	41,000	110,000	50,500	28,400	72,000	41,700	45,300	170,000	34,800	7,820	45,200
12	75,000	41,400	110,000	58,300	23,500	114,000	51,300	43,800	153,000	32,900	10,200	46,100
13	112,000	40,200	110,000	53,900	22,300	121,000	50,700	43,700	145,000	32,400	20,300	46,400
14	132,000	41,000	109,000	48,400	29,800	128,000	48,500	46,700	148,000	32,200	16,400	44,400
15	137,000	41,000	109,000	45,000	27,900	132,000	42,500	54,800	150,000	30,100	15,900	40,000
16	134,000	41,000	108,000	35,200	33,100	131,000	41,400	57,800	148,000	19,800	18,200	26,900
17	129,000	30,700	108,000	38,700	31,400	128,000	40,600	47,500	147,000	21,500	14,400	22,300
18	131,000	20,500	108,000	38,100	30,400	130,000	38,900	46,900	147,000	23,300	16,000	30,000
19	133,000	20,300	109,000	43,500	29,000	135,000	39,600	44,200	148,000	25,200	14,700	26,300
20	132,000	27,800	111,000	44,200	32,000	136,000	36,500	43,800	148,000	24,300	16,100	50,500
21	126,000	57,200	109,000	43,500	50,500	136,000	34,200	43,600	148,000	14,500	14,200	55,700
22	120,000	61,100	108,000	43,200	74,300	135,000	35,800	43,600	144,000	22,700	20,600	52,800
23	113,000	74,900	108,000	43,200	63,700	133,000	37,700	43,100	142,000	21,100	19,300	45,900
24	107,000	146,000	120,000	41,500	66,100	132,000	28,100	42,600	132,000	9,370	15,400	41,400
25	98,000	249,000	119,000	41,100	54,200	131,000	24,900	47,400	108,000	17,500	19,700	36,000
26	84,200	232,000	113,000	41,100	44,400	129,000	30,500	64,000	62,400	24,400	23,100	45,500
27	75,800	186,000	108,000	40,600	45,600	127,000	30,800	75,900	57,900	15,700	14,200	47,400
28	76,900	141,000	108,000	39,400	53,800	127,000	30,100	76,900	49,200	8,270	8,210	45,000
29	76,500	122,000	108,000	40,000	-----	126,000	32,800	77,700	43,800	15,900	4,450	43,500
30	75,800	117,000	108,000	37,100	-----	130,000	63,300	77,600	26,500	18,500	7,280	14,000
31	77,600	-----	108,000	41,100	-----	125,000	-----	77,000	-----	11,500	13,500	-----
TOTAL	2,629.9M	2,367.2M	3,483.0M	1,569.4M	1,119.8M	3,077.9M	1,455.5M	1,966.8M	3,306.2M	841,640	411,472	1,282.9M
MEAN	84,840	78,910	112,400	50,630	39,990	99,290	48,520	63,450	110,200	27,150	13,270	42,760
MAX	137,000	249,000	134,000	107,000	74,300	136,000	111,000	108,000	170,000	45,100	33,900	64,800
MIN	37,300	20,300	108,000	35,200	22,300	36,800	24,900	42,600	26,500	8,270	252	14,000
AC-FT	5,216M	4,695M	6,909M	3,113M	2,221M	6,105M	2,887M	3,901M	6,558M	1,669M	816,200	2,545M
CAL YR 1973	TOTAL 30,801,012			MEAN 84,390		MAX 249,000		MIN 320		AC-FT 61,090,000		
WTR YR 1974	TOTAL 23,511,710			MEAN 64,420		MAX 249,000		MIN 252		AC-FT 46,640,000		

07252000 Mulberry River near Mulberry, Ark.

LOCATION.--Lat 35°34'37", long 94°00'55", in SE¼SW¼ sec.31, T.11 N., R.28 W., Franklin County, on left bank 0.6 mi (1.0 km) upstream from Mill Creek, 5.7 mi (9.2 km) north of Mulberry, and at mile 11.3 (18.2 km).

DRAINAGE AREA.--373 mi² (966 km²).

PERIOD OF RECORD.--May 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 432.75 ft (131.902 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 19, 1940, nonrecording gage at site 500 ft (152 m) downstream at present datum.

AVERAGE DISCHARGE.--36 years, 550 ft³/s (15.6 m³/s), 20.02 in/yr (509 mm/yr), 398,500 acre-ft/yr (491 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 56,800 ft³/s (1,609 m³/s) Nov. 25, gage height, 21.34 ft (6.504 m); minimum, 2.7 ft³/s (0.076 m³/s) Aug. 8, 9, gage height, 0.65 ft (0.198 m).

Period of record: Maximum discharge, 56,800 ft³/s (1,609 m³/s) Nov. 25, 1973, gage height, 21.34 ft (6.504 m); no flow at times in 1939, 1943, 1953-54, 1956, 1964, 1967.

Flood of December 1927 reached a stage of 22.0 ft (6.71 m), discharge, about 59,000 ft³/s (1,700 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1007: 1943. WSP 1211: 1941-42. WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	154	106	1,070	635	644	586	405	1,830	525	66	3.4	267		
2	133	126	898	538	599	536	368	4,360	396	59	6.6	2,370		
3	116	136	834	483	543	493	392	3,480	311	52	6.6	2,160		
4	103	131	8,100	434	479	455	448	2,180	267	47	6.2	945		
5	91	122	3,740	397	436	427	402	1,630	9,880	42	4.7	577		
6	89	114	2,260	374	410	437	363	1,260	6,760	38	3.6	410		
7	85	107	1,670	348	380	423	346	1,020	16,600	34	3.1	312		
8	79	102	1,340	318	342	404	343	843	6,350	32	2.7	249		
9	73	96	1,130	298	313	400	326	694	5,180	29	3.4	210		
10	68	90	958	289	289	388	300	580	3,180	26	8.5	190		
11	75	85	794	294	268	2,410	316	496	1,910	23	9.5	4,690		
12	82	81	678	273	250	2,630	1,020	549	1,560	21	465	3,400		
13	836	75	595	249	239	1,790	1,100	463	1,170	18	482	2,050		
14	1,070	57	517	236	231	1,430	1,140	393	909	17	196	1,340		
15	614	53	466	231	226	1,220	1,090	1,110	721	16	125	942		
16	429	50	414	228	236	1,070	912	918	2,040	14	92	788		
17	323	48	364	223	239	903	789	649	1,030	13	77	714		
18	256	46	331	220	229	807	717	502	740	12	72	615		
19	213	46	664	215	294	783	860	412	585	11	70	520		
20	183	84	2,100	215	395	754	767	341	451	11	66	7,660		
21	156	595	1,530	215	507	967	785	285	357	10	60	3,960		
22	135	612	1,270	214	1,390	1,040	1,240	250	287	9.1	55	2,040		
23	121	1,730	1,120	208	1,320	966	1,270	225	236	8.5	50	1,390		
24	110	22,700	2,840	202	1,110	874	1,070	197	195	7.5	44	1,060		
25	99	26,700	2,320	193	921	777	922	187	162	6.6	40	1,250		
26	87	5,760	1,750	210	813	698	811	803	134	6.2	36	1,310		
27	96	3,420	1,420	391	730	630	700	931	113	5.4	34	1,080		
28	99	2,220	1,170	601	656	579	602	601	99	4.7	94	919		
29	105	1,620	1,040	786	-----	516	525	458	86	4.1	194	812		
30	100	1,280	894	761	-----	472	1,140	372	75	3.8	173	679		
31	103	-----	769	708	-----	436	-----	343	-----	3.4	141	-----		
TOTAL	6,283	68,392	45,046	10,987	14,489	26,301	21,469	28,362	62,309	650.3	2,624.3	44,909		
MEAN	203	2,280	1,453	354	517	848	716	915	2,077	21.0	84.7	1,497		
MAX	1,070	26,700	8,100	786	1,390	2,630	1,270	4,360	16,600	66	482	7,660		
MIN	68	46	331	193	226	388	300	187	75	3.4	2.7	190		
CFSM	.54	6.11	3.90	.95	1.39	2.27	1.92	2.45	5.57	.06	.23	4.01		
1N.	.63	6.82	4.49	1.10	1.45	2.62	2.14	2.83	6.21	.06	.26	4.48		
AC-FT	12,460	135,700	89,350	21,790	28,740	52,170	42,580	56,260	123,600	1,290	5,210	89,080		
CAL YR 1973	TOTAL 426,032.32		MEAN 1,167		MAX 26,700		MIN .65		CFSM 3.13		1N 42.49		AC-FT 845,000	
WTR YR 1974	TOTAL 331,821.60		MEAN 909		MAX 26,700		MIN 2.7		CFSM 2.44		1N 33.09		AC-FT 658,200	

PEAK DISCHARGE (BASE, 10,000 CF5)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-25	0600	21.34	56,800	9-11	1700	10.51	12,400
12- 4	0900	11.09	13,800	9-20	1000	10.95	13,400
6- 5	2000	15.92	29,800				

07252405 Ozark Lake at Ozark, Ark.

LOCATION.--Lat 35°28'21", long 93°48'46", in SW¼ sec.6, T.9 N., R.26 W., Franklin County, at Ozark Dam on Arkansas River, 1.0 mi (1.6 km) southeast of Ozark, and at mile 272.9 (439.1 km).
DRAINAGE AREA.--151,801 mi² (393,165 km²), of which 22.241 mi² (57,604 km²) is probably noncontributing.
PERIOD OF RECORD.--December 1969 to current year.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level.
EXTREMES.--Current year: Maximum contents, 161,200 acre-ft (199 hm³) Aug. 19, elevation, 373.09 ft (113.718 m); minimum, 111,900 acre-ft (138 hm³) Sept. 15, elevation, 367.90 ft (112.136 m).
Period of record: Maximum contents, 161,200 acre-ft (199 hm³) Aug. 1, 1974, elevation, 373.09 ft (113.718 m); minimum since initial filling to bottom of power-pool level, 94,620 acre-ft (117 hm³) June 13, Oct. 28, 1970, elevation, 365.40 ft (111.374 m).
REMARKS.--Lake is formed by combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began Dec. 1, 1969, and bottom of power pool was first reached Dec. 6, 1969. Lake is used for navigation, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates.....	373 (113.7 m)	160,000 (197 hm ³)
Top of designated power pool.....	372 (113.4 m)	148,400 (183 hm ³)
Bottom of designated power pool.....	370 (112.8 m)	129,000 (159 hm ³)
Crest of gated spillway.....	327 (99.7 m)	-
Bottom of lowest outlet.....	311.5 (94.95 m)	-

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

367 (111.9 m)	105.5 (130 hm ³)
370 (112.8 m)	129.0 (159 hm ³)
374 (114.0 m)	171.9 (212 hm ³)

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148,200	147,900	148,200	146,300	149,300	146,700	147,200	151,200	146,100	147,400	156,400	132,400
2	148,400	148,400	149,300	149,600	149,600	145,000	148,900	149,600	148,000	146,600	154,000	146,000
3	149,000	147,400	142,100	143,700	146,700	147,600	148,000	145,700	150,300	148,400	156,400	149,600
4	147,400	143,600	145,900	148,400	147,400	149,600	145,500	146,500	150,300	151,300	154,800	149,100
5	147,400	145,900	145,900	134,800	146,500	148,600	148,600	148,400	146,300	148,400	159,900	147,600
6	149,000	148,100	143,500	144,300	146,500	149,300	145,900	129,000	149,100	149,800	158,000	152,800
7	147,400	150,000	148,400	146,500	145,700	148,600	146,900	149,600	150,500	149,100	158,900	145,500
8	149,600	148,200	149,600	146,800	147,600	149,300	150,700	150,700	146,900	147,600	158,700	145,000
9	149,000	148,200	150,000	146,800	149,300	149,300	146,100	148,800	149,600	148,000	156,000	143,100
10	145,900	150,500	149,600	136,000	145,500	147,400	142,600	149,300	150,700	148,000	156,000	145,500
11	146,900	146,500	148,200	147,900	145,500	144,500	150,500	150,500	148,400	150,700	152,100	151,700
12	146,500	145,500	147,400	146,500	147,400	147,900	146,800	147,800	147,600	147,400	158,000	154,200
13	146,500	149,600	145,000	146,000	148,400	146,000	147,400	144,300	150,700	146,500	159,600	133,700
14	147,200	146,900	146,000	148,600	146,600	149,000	145,500	147,800	148,400	148,400	159,600	133,800
15	147,200	146,900	146,000	146,000	149,800	147,400	144,500	150,700	149,800	146,900	156,600	116,700
16	146,100	148,300	145,000	148,800	147,400	148,600	150,700	150,700	147,600	134,800	153,300	138,700
17	148,400	147,400	145,500	148,400	147,900	146,500	149,300	150,200	148,900	144,700	151,900	119,200
18	148,400	150,900	146,500	147,400	148,400	148,400	145,000	148,000	148,200	154,200	159,500	131,100
19	148,000	147,900	148,900	150,500	147,900	149,800	153,300	146,700	149,600	157,800	157,500	122,300
20	148,600	145,000	145,000	147,200	149,000	146,100	149,600	148,000	147,900	157,800	155,400	151,900
21	147,600	146,500	145,700	148,600	144,500	149,800	152,800	148,000	146,800	156,100	156,600	152,800
22	148,900	148,400	148,400	146,900	150,200	146,100	149,300	148,600	144,300	155,400	156,600	150,700
23	148,200	148,400	149,600	144,700	145,000	146,100	151,700	147,200	148,400	159,500	138,200	154,200
24	146,900	142,100	144,300	145,500	146,000	148,300	151,000	150,200	148,400	147,600	139,700	149,600
25	149,800	146,000	145,300	149,800	150,000	147,400	153,100	144,900	145,700	156,600	145,000	141,800
26	148,900	146,000	146,700	150,700	146,900	146,500	151,900	150,700	148,400	157,200	141,400	148,200
27	148,400	146,000	147,200	148,900	148,200	145,500	150,700	148,600	143,800	155,400	147,400	149,300
28	150,200	148,400	149,300	149,300	148,200	145,500	154,200	147,400	149,600	156,800	153,300	152,800
29	147,900	143,600	147,600	149,800	-----	145,500	149,600	147,600	147,400	156,600	146,500	153,300
30	147,900	146,500	148,400	146,500	-----	147,200	146,300	147,000	144,500	157,800	145,000	135,300
31	147,900	-----	148,200	148,400	-----	145,300	-----	145,300	-----	157,200	152,500	-----
MAX	150,200	150,900	150,000	150,700	150,200	149,800	154,200	151,200	150,700	159,500	159,900	154,200
MIN	145,900	142,100	142,100	134,800	144,500	144,500	142,600	129,000	143,800	134,800	138,200	116,700
(†)	371.95	371.80	371.98	372.00	371.98	371.68	371.78	371.68	371.60	372.75	372.35	370.65
(‡)	-1,700	-1,400	+1,700	+200	-200	-2,900	+1,000	-1,000	-800	+12,700	-4,700	-17,200

CAL YR 1973..... ‡ +1,700
WTR YR 1974..... ‡ -14,300

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07257000 Big Piney Creek near Dover, Ark.

LOCATION.--Lat 35°32'58", long 93°09'30", in SW¼NE¼ sec.6, T.10 N., R.20 W., Pope County, on left bank 7.2 mi (11.6 km) downstream from Indian Creek, 10.4 mi (16.7 km) north of Dover, and at mile 28.0 (45.1 km).

DRAINAGE AREA.--274 mi² (710 km²).

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1967, published as Piney Creek near Dover.

GAGE.--Water-stage recorder. Datum of gage is 487.66 ft (148.639 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 403 ft³/s (11.4 m³/s), 19.97 in/yr (507 mm/yr), 292,000 acre-ft/yr (360 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 57,600 ft³/s (1,630 m³/s) Nov. 25, gage height, 26.11 ft (7.958 m); minimum, 0.54 ft³/s (0.015 m³/s) Aug. 6, 7, gage height, 0.95 ft (0.290 m).

Period of record: Maximum discharge, 74,600 ft³/s (2,110 m³/s) Dec. 10, 1971, gage height, 28.7 ft (8.75 m), from floodmark, from rating curve extended above 45,000 ft³/s (1,270 m³/s); no flow at times in 1952-54, 1956, 1964, 1969, 1970.

Flood of Jan. 24, 1949, reached a stage of 25.6 ft (7.80 m), from floodmarks, discharge, about 55,800 ft³/s (1,580 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS)--WRD Ark. 1972: 1949(M), 1953(M), 1955(M), 1957(M), 1961(M), 1966(M), 1968-69(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	183	810	442	458	454	299	1,180	305	31	.97	13
2	54	183	672	370	434	414	274	1,840	249	27	.97	331
3	44	158	1,200	331	392	381	312	1,790	206	23	1.1	552
4	37	144	11,000	296	342	348	403	1,280	179	21	.78	258
5	30	138	3,150	271	312	373	328	1,000	4,300	18	.64	173
6	28	125	1,860	257	299	430	299	788	4,760	18	.54	123
7	26	112	1,310	244	277	392	292	637	9,970	16	.70	100
8	24	103	1,030	223	252	359	321	531	4,300	14	3.0	74
9	22	93	844	214	233	335	296	450	3,640	13	5.9	52
10	21	86	692	223	218	318	271	458	2,400	12	11	42
11	21	77	580	231	204	1,660	315	1,340	1,440	11	14	1,150
12	28	74	509	211	192	1,700	1,120	1,750	1,100	9.4	553	1,040
13	7,260	69	454	192	188	1,210	946	1,010	810	8.7	228	515
14	1,630	67	392	190	183	970	1,050	729	623	11	135	350
15	777	66	359	192	175	827	891	2,450	491	8.7	84	265
16	496	63	308	192	183	723	755	1,370	479	8.3	58	208
17	345	60	271	188	181	603	642	946	363	7.7	44	169
18	254	60	249	188	175	535	585	697	299	6.2	44	140
19	209	58	1,230	188	274	517	562	531	254	5.4	35	119
20	177	106	2,380	192	318	474	491	414	211	5.1	38	1,220
21	150	1,150	1,440	211	562	594	479	345	177	4.6	31	1,260
22	128	662	1,120	202	1,570	608	1,080	335	150	3.8	27	635
23	103	3,690	946	197	1,150	585	989	277	123	3.3	23	344
24	86	17,200	2,000	190	921	548	810	226	101	3.0	19	285
25	76	16,400	1,680	181	734	487	692	204	82	3.0	16	314
26	66	5,300	1,270	209	632	458	599	777	66	3.0	13	290
27	67	2,950	1,010	411	566	430	522	708	56	2.4	12	265
28	79	1,860	827	517	513	403	450	500	49	2.1	12	220
29	101	1,290	723	548	-----	381	392	392	41	1.7	14	186
30	82	1,010	608	526	-----	352	844	318	37	1.7	13	161
31	88	-----	535	496	-----	318	-----	289	-----	1.3	13	-----
TOTAL	12,578	53,537	41,459	8,523	11,938	18,187	17,309	25,562	37,261	304.4	1,451.60	10,854
MEAN	406	1,785	1,337	275	426	587	577	825	1,242	9.82	46.8	362
MAX	7,260	17,200	11,000	548	1,570	1,700	1,120	2,450	9,970	31	553	1,260
MIN	21	58	249	181	175	318	271	204	37	1.3	.54	13
CFSM	1.48	6.51	4.88	1.00	1.55	2.14	2.11	3.01	4.53	.04	.17	1.32
1N.	1.71	7.27	5.63	1.16	1.62	2.47	2.35	3.47	5.06	.04	.20	1.47
AC-FT	24,950	106,200	82,230	16,910	23,680	36,070	34,330	50,700	73,910	604	2,880	21,530
CAL YR 1973	TOTAL	351,044.57	MEAN	962	MAX	17,200	MIN	.13	CFSM	3.51	1N	47.66
WTR YR 1974	TOTAL	238,964.00	MEAN	655	MAX	17,200	MIN	.54	CFSM	2.39	1N	32.44
AC-FT										696,300		474,000

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
10-13	0830	14.06	15,500	12- 4	0500	16.71	22,500
11-25	0200	26.11	57,600	6- 7	1530	14.69	17,100

07257995 Lake Dardanelle at Dardanelle, Ark.

LOCATION.--Lat 35°14'50", long 93°10'23", in sec.24, T.7 N., R.21 W., Pope County, at dam on Arkansas River, 1.5 mi (2.4 km) northwest of courthouse in Dardanelle, and at mile 221.6 (356.6 km).

DRAINAGE AREA.--153,666 mi² (397,995 km²) of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1964 to current year. Prior to October 1969, published as Dardanelle Reservoir at Dardanelle.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 502,000 acre-ft (619 hm³) June 5, elevation, 338.45 ft (103.160 m); minimum, 420,900 acre-ft (519 hm³) Oct. 2, June 18, elevation, 336.00 ft (102.413 m).
Period of record: Maximum contents, 502,000 acre-ft (619 hm³) June 5, 1974, elevation, 338.45 ft (103.160 m); minimum since initial filling to bottom of power pool, 415,200 acre-ft (512 hm³) Oct. 13, 1969, elevation, 335.81 ft (102.355 m).

REMARKS.--Lake is formed by combination concrete-gravity and embankment dam. Storage for purpose of filling to power-pool level began Oct. 1, 1964, and bottom of power pool was first reached Jan. 21, 1965. Lake is used for navigation, power-development, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway gates.....	339 (103.3 m)	521,400 (643 hm ³)
Top of designated power pool.....	338 (103.0 m)	486,200 (599 hm ³)
Bottom of designated power pool....	336 (102.4 m)	420,900 (519 hm ³)
Crest of gated spillway.....	300 (91.4 m)	8,200 (10.1 hm ³)
Bottom of lowest outlet.....	288 (87.8 m)	10 (12,330 m ³)

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ark. 1970: Drainage area.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

336 (102.4 m)	420.9 (519 hm ³)
337 (102.7 m)	452.7 (558 hm ³)
339 (103.3 m)	521.4 (643 hm ³)

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	425,700	486,600	491,500	480,800	476,800	496,100	484,500	492,500	487,300	469,500	465,400	477,500
2	424,100	486,600	488,300	479,500	485,500	484,900	491,100	490,100	486,200	482,900	471,100	472,800
3	434,600	482,900	493,200	480,800	483,500	473,500	493,200	484,500	484,900	472,800	464,400	493,200
4	433,000	486,900	480,200	477,800	476,800	478,800	482,900	491,800	487,600	476,200	462,100	481,500
5	428,500	482,500	484,900	486,200	468,400	488,000	481,200	472,800	489,000	479,800	454,400	483,500
6	428,500	493,200	478,200	483,900	461,400	490,800	491,500	490,400	486,200	470,500	457,400	483,500
7	434,600	485,200	485,500	489,700	458,700	486,900	494,300	474,500	472,500	474,800	458,700	485,200
8	425,700	491,500	491,500	484,900	452,100	481,800	480,800	486,900	466,800	474,800	457,400	483,200
9	424,100	492,500	484,500	485,900	461,400	479,800	491,500	492,200	463,400	459,100	447,300	483,200
10	422,200	487,300	483,500	485,900	480,500	471,500	491,800	486,900	452,700	459,100	464,400	479,800
11	435,800	488,300	491,500	471,800	473,800	488,700	486,200	483,200	469,500	459,100	465,400	487,300
12	469,500	486,600	485,500	481,500	466,100	492,200	491,800	488,700	472,100	462,100	472,100	484,500
13	482,900	480,500	482,900	487,600	462,400	483,200	491,800	491,500	459,400	462,100	484,200	489,700
14	485,900	480,500	485,500	488,700	459,700	477,200	484,200	493,200	449,500	471,500	467,100	486,200
15	491,500	486,600	489,700	488,000	453,000	465,800	483,900	492,500	449,500	484,500	459,700	486,200
16	491,500	480,500	488,300	472,100	457,100	440,600	481,800	492,500	436,800	466,400	472,100	447,600
17	482,900	476,800	483,900	452,100	469,500	433,600	487,600	481,500	421,500	445,400	476,200	448,200
18	487,600	476,800	479,500	450,100	476,200	422,500	491,800	481,500	430,400	438,700	473,500	443,500
19	489,400	472,100	488,900	455,400	456,100	447,900	491,800	486,900	450,100	425,400	471,500	452,400
20	484,200	465,400	488,700	462,100	444,700	482,500	495,000	480,800	471,100	444,400	468,800	429,500
21	484,900	466,800	484,500	460,100	459,100	477,200	482,900	480,800	485,500	438,700	468,800	471,800
22	484,900	478,800	484,500	462,100	493,600	489,400	491,800	472,800	489,000	444,400	476,200	487,600
23	488,000	490,000	484,500	459,400	489,400	488,700	491,800	468,100	485,900	446,300	480,500	483,500
24	488,000	490,400	484,500	461,100	485,500	486,900	488,300	457,400	486,200	462,400	468,400	487,300
25	486,900	478,800	484,500	467,800	489,700	494,000	479,500	445,700	488,000	458,400	468,400	488,700
26	486,900	492,500	488,300	483,500	489,700	492,200	485,500	460,100	488,000	462,400	468,400	490,100
27	481,200	487,600	481,800	486,900	492,500	486,900	488,300	486,200	484,900	462,400	464,100	490,100
28	486,900	491,500	484,200	490,400	492,500	489,400	492,500	493,200	487,600	455,700	450,800	488,000
29	486,900	484,900	480,200	488,000	-----	490,400	493,600	489,400	487,600	462,400	459,100	480,200
30	488,700	490,400	491,500	486,900	-----	482,200	486,200	492,500	472,800	471,500	471,100	480,200
31	484,900	-----	489,000	478,500	-----	486,900	-----	483,200	-----	465,400	477,500	-----
MAX	491,500	494,000	493,200	490,400	493,600	496,100	495,000	493,200	489,000	484,500	484,200	493,200
MIN	422,200	465,400	478,200	450,100	444,700	422,500	479,500	445,700	421,500	425,400	447,300	429,500
(+)	337.96	338.12	338.08	337.77	338.18	338.02	338.00	377.91	337.60	337.38	337.74	337.82
(+)	+60,200	+5,500	-1,400	-10,500	+14,000	-5,600	-700	-3,000	-10,400	-7,400	+12,100	+2,700

CAL YR 1973..... ‡ +18,200
WTR YR 1974..... ‡ +55,500

‡ ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41,300	78,900	128,000	117,000	47,700	54,500	125,000	88,000	73,800	28,100	15,800	23,000
2	40,700	81,800	123,000	118,000	43,000	54,700	101,000	110,000	68,000	35,300	13,900	42,500
3	36,300	84,000	129,000	109,000	47,200	44,800	104,000	122,000	50,300	45,800	10,700	52,800
4	44,600	81,200	194,000	92,000	44,700	39,300	98,300	111,000	45,400	37,100	3,650	66,700
5	45,900	75,700	170,000	59,900	38,900	39,200	74,800	99,600	97,800	36,300	3,770	61,400
6	45,100	58,900	156,000	45,100	41,000	44,200	53,800	75,700	98,900	38,200	858	56,500
7	43,200	51,400	130,000	46,800	40,200	44,300	48,700	87,800	119,000	38,500	3,080	43,600
8	47,500	44,600	119,000	54,300	34,100	44,700	47,000	69,900	153,000	38,700	6,540	43,200
9	45,100	45,300	123,000	49,900	28,500	44,700	33,800	65,900	156,000	39,300	16,400	43,700
10	43,200	51,800	120,000	54,100	31,500	43,700	38,800	71,700	171,000	32,600	25,500	43,700
11	33,700	44,900	115,000	58,700	36,300	57,000	41,800	62,400	164,000	31,600	17,000	46,800
12	47,100	44,700	121,000	46,900	28,300	94,900	48,800	44,700	171,000	31,200	3,670	56,500
13	94,000	44,400	119,000	56,000	24,000	118,000	54,100	44,200	163,000	30,000	13,100	52,100
14	114,000	44,500	115,000	53,300	31,400	131,000	62,100	44,100	151,000	27,300	27,000	57,300
15	122,000	40,400	115,000	49,000	31,300	140,000	52,700	49,000	150,000	24,600	19,200	44,400
16	131,000	44,600	114,000	49,300	31,300	149,000	43,600	59,100	157,000	32,900	13,300	46,600
17	130,000	39,300	114,000	47,800	23,900	142,000	38,200	61,000	157,000	25,500	15,400	35,600
18	121,000	25,800	114,000	40,600	29,600	143,000	40,300	46,000	144,000	24,400	15,200	26,700
19	118,000	22,200	118,000	37,600	39,400	135,000	40,700	44,900	133,000	27,500	13,300	27,400
20	121,000	32,800	127,000	43,100	35,000	132,000	35,600	45,100	135,000	14,000	18,300	39,800
21	118,000	48,600	126,000	46,200	37,900	150,000	43,900	45,000	137,000	15,800	14,300	59,000
22	114,000	57,800	122,000	44,900	49,900	144,000	38,100	45,500	142,000	18,400	15,000	50,400
23	107,000	75,300	121,000	44,800	75,400	145,000	46,100	45,800	140,000	13,400	22,600	51,800
24	103,000	163,000	130,000	42,600	74,900	143,000	41,400	46,400	135,000	14,200	26,100	44,400
25	97,100	282,000	147,000	37,000	63,400	139,000	31,500	47,700	125,000	11,500	13,800	45,300
26	91,000	293,000	137,000	38,300	55,700	141,000	31,600	48,000	97,000	21,200	19,200	43,400
27	82,900	262,000	127,000	45,800	43,900	140,000	31,400	53,900	61,400	21,600	20,100	46,200
28	74,000	208,000	118,000	46,400	49,200	135,000	31,500	69,300	49,400	10,600	11,400	49,500
29	75,200	161,000	120,000	46,500	-----	133,000	32,300	76,900	45,400	7,040	4,520	48,600
30	76,500	135,000	113,000	46,700	-----	134,000	58,000	74,200	41,200	16,000	1,870	39,000
31	78,300	-----	118,000	46,900	-----	126,000	-----	80,300	-----	12,400	3,400	-----
TOTAL	2,481.7M	2,722.9M	3,943.0M	1,714.5M	1,157.6M	3,226.0M	1,568.9M	2,035.1M	3,531.6M	801,040	407,958	1,387.9M
MEAN	80,050	90,760	127,200	55,310	41,340	104,100	52,300	65,650	117,700	25,840	13,160	46,260
MAX	131,000	293,000	194,000	118,000	75,400	150,000	125,000	122,000	171,000	45,800	27,000	66,700
MIN	33,700	22,200	113,000	37,000	23,900	39,200	31,400	44,100	41,200	7,040	858	23,000
AC-FT	4,922M	5,401M	7,821M	3,401M	2,296M	6,399M	3,112M	4,037M	7,005M	1,589M	809,200	2,753M
CAL YR 1973	TOTAL 33,124,116		MEAN 90,750		MAX 300,000		MIN 565		AC-FT 65,700,000			
WTR YR 1974	TOTAL 24,978,198		MEAN 68,430		MAX 293,000		MIN 858		AC-FT 49,540,000			

ARKANSAS RIVER BASIN

07258500 Petit Jean River near Booneville, Ark.

LOCATION.--Lat 35°06'25", long 93°55'25", in NW¼NW¼ sec.18, T.5 N., R.27 W., Logan County, on right bank at downstream side of bridge on State Highway 23, 0.5 mi (0.8 km) downstream from Fletcher Creek, 2.3 mi (3.7 km) south of Booneville, and at mile 102.3 (164.6 km).

DRAINAGE AREA.--241 mi² (624 km²).

PERIOD OF RECORD.--November 1938 to current year. Prior to October 1965, published as Petit Jean Creek near Booneville.

GAGE.--Water-stage recorder. Datum of gage is 423.39 ft (129.049 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years (1939-74), 253 ft³/s (7.16 m³/s), 14.26 in/yr (362 mm/yr), 183,300 acre-ft/yr (226 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,800 ft³/s (362 m³/s) Apr. 30, gage height, 20.81 ft (6.343 m); minimum, 0.22 ft³/s (0.006 m³/s) Aug. 7, 8, gage height, 1.47 ft (0.448 m).
Period of record: Maximum discharge, 43,200 ft³/s (1,220 m³/s) Apr. 16, 1939, gage height, 23.42 ft (7.138 m), from rating curve extended above 20,500 ft³/s (581 m³/s) on basis of slope-area and contracted-opening measurement of peak flow; no flow at times.

REMARKS.--Records good.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	26	231	173	105	98	88	4,020	14	8.3	.28	.51
2	12	27	194	149	100	91	75	4,250	12	7.0	.66	55
3	9.0	22	294	140	90	83	553	1,210	11	6.0	.66	77
4	6.6	101	3,590	124	77	74	313	884	239	4.9	.32	23
5	5.2	68	890	124	71	82	177	468	753	4.5	.26	9.0
6	5.5	69	504	128	67	83	136	310	480	3.8	.28	4.9
7	7.0	50	345	112	61	75	118	224	5,420	3.4	.25	3.2
8	6.0	42	272	103	56	75	103	175	2,970	3.0	.25	2.0
9	5.2	36	231	98	52	64	88	138	3,920	2.4	.28	2.0
10	4.9	33	188	116	49	64	77	112	1,160	2.2	.74	4.9
11	7.3	30	168	126	45	1,290	210	96	447	2.0	.58	682
12	47	27	154	98	43	659	641	83	272	1.9	.44	254
13	790	24	138	88	42	345	291	67	194	1.7	.38	101
14	424	23	118	86	40	249	1,430	54	145	1.7	.38	65
15	183	20	107	85	42	210	483	45	126	35	.38	42
16	114	18	93	86	56	181	288	43	291	30	1.0	68
17	80	17	82	85	49	145	210	44	181	11	1.1	283
18	57	41	77	83	43	130	173	36	107	6.6	3.0	175
19	44	27	1,890	82	91	450	147	29	82	4.7	4.2	100
20	35	186	1,230	77	96	272	120	23	61	3.2	3.4	74
21	28	280	553	143	704	784	114	20	47	2.4	2.6	105
22	24	140	421	116	564	399	604	17	36	1.7	1.9	80
23	20	1,760	401	101	267	332	340	15	30	1.3	1.4	56
24	17	7,940	3,330	88	192	294	199	13	24	1.0	1.0	42
25	15	5,060	981	78	143	217	151	16	20	1.0	.74	154
26	13	3,220	601	132	124	190	122	44	16	1.0	.58	168
27	18	1,170	418	212	114	168	101	59	14	.74	.58	122
28	16	673	319	181	107	151	86	39	12	.58	.83	88
29	15	421	272	156	-----	138	110	26	11	.51	.58	64
30	14	313	227	130	-----	116	9,300	19	9.4	.44	.44	47
31	30	-----	203	116	-----	100	-----	16	-----	.38	.38	-----
TOTAL	2,067.7	21,864	18,522	3,616	3,490	7,609	16,848	12,595	17,104.4	154.35	29.89	2,951.51
MEAN	66.7	729	597	117	125	245	562	406	570	4.98	.96	98.4
MAX	790	7,940	3,590	212	704	1,290	9,300	4,250	5,420	35	4.2	682
MIN	4.9	17	77	77	40	64	75	13	9.4	.38	.25	.51
CFSM	.28	3.02	2.48	.49	.52	1.02	2.33	1.68	2.37	.02	.004	.41
IN.	.32	3.37	2.86	.56	.54	1.17	2.60	1.94	2.64	.02	.004	.46
AC-FT	4,100	43,370	36,740	7,170	6,920	15,090	33,420	24,980	33,930	306	59	5,850

CAL YR 1973 TOTAL 205,541.04 MEAN 563 MAX 23,000 MIN .32 CFSM 2.34 IN 31.73 AC-FT 407,700
WTR YR 1974 TOTAL 106,851.85 MEAN 293 MAX 9,300 MIN .25 CFSM 1.22 IN 16.49 AC-FT 211,900

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-24	1300	19.52	8,990	4-30	1300	20.81	12,800
12-4	0700	14.85	5,210	6-7	2300	18.69	7,850
12-24	0800	14.53	5,030				

07259000 Blue Mountain Lake near Waveland, Ark.

LOCATION.--Lat 35°06'06", long 93°39'02", in NW¼NW¼ sec.15, T.5 N., R.25 W., Yell County, at outlet structure at Blue Mountain Dam on Petit Jean River, 1.9 mi (3.1 km) southwest of Waveland, and at mile 74.4 (119.7 km).

DRAINAGE AREA.--488 mi² (1,264 km²).

PERIOD OF RECORD.--March 1947 to current year. Prior to October 1969, published as Blue Mountain Reservoir near Waveland.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 109,300 acre-ft (135 hm³) Dec. 6, elevation, 402.40 ft (122.652 m); minimum, 24,670 acre-ft (30.4 hm³) Feb. 15, elevation, 384.00 ft (117.046 m).

Period of record: Maximum contents, 298,600 acre-ft (368 hm³) May 26, 1957, elevation, 422.54 ft (128.790 m); minimum since initial filling to conservation-pool level, 2,150 acre-ft (2.65 hm³) Oct. 2, 3, 1959, elevation, 370.68 ft (112.983 m), result of lowering pool to control fish population.

REMARKS.--Lake is formed by earthfill dam. Outlet works consist of a 20 ft (6.1 m) circular tunnel controlled by three 8 ft (2.4 m) by 17 ft (5.2 m) tractor-type gates and an uncontrolled saddle spillway 150 ft (45.7 m) long. Storage began Mar. 13, 1947. Capacity between elevations 384.0 ft (117.04 m) and 419.0 ft (127.71 m) is 233,300 acre-ft (288 hm³) and is reserved for flood-control storage. Lake is used for flood-control, conservation and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest.....	419.0 (127.71 m)	257,900 (318 hm ³)
Top of conservation pool.....	384.0 (117.04 m)	24,640 (30.4 hm ³)
Bottom of lowest outlet (gate sills)...	370.0 (112.78 m)	1,940 (2.39 hm ³)

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-feet)

384 (117.0 m)	24,640 (30.4 hm ³)	400 (121.9 m)	93,620 (115 hm ³)
388 (118.3 m)	37,490 (46.2 hm ³)	403 (122.8 m)	113,500 (140 hm ³)
395 (120.4 m)	66,370 (81.8 hm ³)		

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25,960	25,560	88,250	42,250	28,860	27,210	25,040	70,370	34,030	33,020	30,150	28,770
2	25,860	25,620	86,130	38,880	28,990	26,480	24,980	81,520	33,790	32,250	30,620	29,320
3	25,560	25,500	88,070	35,510	28,920	25,680	25,890	85,190	33,560	31,910	30,550	29,410
4	25,530	26,080	104,200	32,450	28,590	25,280	26,410	88,370	35,570	31,780	30,400	29,380
5	25,220	26,320	108,000	30,180	28,190	24,920	26,480	88,900	39,280	31,640	30,250	29,350
6	25,220	26,380	108,800	28,620	27,790	25,130	26,480	87,780	40,860	31,510	30,180	29,200
7	25,160	26,410	106,200	26,970	27,240	25,190	26,720	85,490	56,950	31,440	30,060	29,020
8	25,070	26,450	103,100	26,200	26,690	25,070	26,480	82,660	67,670	31,370	30,030	28,680
9	25,010	26,410	99,800	25,440	26,110	25,040	26,260	79,760	78,740	31,410	30,060	28,680
10	24,950	26,200	95,810	25,440	25,530	25,190	26,170	76,240	84,130	31,370	29,940	28,620
11	25,220	26,170	91,320	25,220	25,160	29,540	26,410	72,840	84,720	31,270	29,850	31,010
12	26,170	26,080	87,480	25,040	25,130	31,310	27,700	69,210	82,840	31,170	29,970	31,880
13	34,470	25,960	82,550	25,370	25,040	30,870	28,530	65,120	79,280	31,110	29,850	31,980
14	36,520	25,890	78,370	25,530	24,850	29,720	33,120	61,370	75,390	31,040	29,820	31,880
15	37,490	25,800	74,120	25,410	25,160	28,530	34,530	58,130	72,090	31,140	29,750	31,710
16	36,480	25,500	69,550	25,310	25,190	27,000	35,170	54,810	69,990	31,110	29,690	31,370
17	33,630	25,340	64,920	25,190	25,160	25,620	35,540	51,480	66,760	31,040	29,380	31,010
18	30,430	25,530	60,190	25,100	25,340	25,010	35,810	48,280	62,660	30,940	29,600	30,340
19	27,940	25,560	60,980	25,190	25,250	26,600	35,910	44,810	59,540	30,870	29,690	29,450
20	26,050	26,690	62,270	25,710	25,010	27,520	36,110	41,960	56,910	30,800	29,540	28,560
21	25,560	27,640	59,360	26,050	26,540	29,260	36,380	38,590	54,200	30,650	29,480	27,580
22	25,250	28,190	56,340	26,570	27,980	28,530	38,110	36,550	51,600	30,550	29,410	26,540
23	25,010	30,310	53,410	26,600	28,990	27,180	39,210	34,970	48,880	30,370	29,290	25,860
24	24,920	52,640	60,540	26,720	29,480	25,800	38,730	34,430	46,200	30,310	29,230	25,770
25	24,850	74,330	61,370	26,660	29,480	25,130	37,780	34,570	43,680	30,520	29,080	25,650
26	24,880	86,660	61,020	27,090	29,170	25,010	36,520	34,570	41,190	30,460	29,020	25,680
27	25,100	92,150	58,750	27,000	28,620	25,160	35,740	34,570	38,660	30,370	29,080	25,620
28	25,100	93,210	55,860	28,040	27,980	25,190	35,210	34,500	36,620	30,280	29,140	25,620
29	25,040	91,850	52,360	28,220	-----	25,160	35,070	34,370	35,270	30,340	28,950	25,410
30	25,100	90,260	49,160	28,470	-----	25,010	54,110	34,230	34,030	30,310	28,890	25,100
31	25,440	-----	45,650	28,560	-----	25,040	-----	34,230	-----	30,250	28,770	-----
MAX	37,490	93,210	108,800	42,250	29,480	31,310	54,110	88,900	84,720	33,020	30,620	31,980
MIN	24,850	25,340	45,650	25,040	24,850	24,920	24,980	34,230	33,560	30,250	28,770	25,100
(↑)	384.26	399.43	390.21	385.28	385.09	384.13	392.30	387.03	386.97	385.83	385.35	384.15
(↓)	-730	+64,820	-44,610	-17,090	-580	-2,940	+29,070	-19,880	-200	-3,780	-1,480	-3,670

CAL YR 1973..... ‡ +18,840

WTR YR 1974..... ‡ -1,070

‡ ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07259500 Petit Jean River near Waveland, Ark.

LOCATION.--Lat 35°06'17", long 93°37'53", in SE¼SW¼ sec.11, T.5 N., R.25 W., Yell County, on left bank 0.8 mi (1.3 km) downstream from Rock Creek, 1.2 mi (1.9 km) downstream from Cedar Creek, 1.3 mi (2.1 km) south of Waveland, 1.4 mi (2.3 km) downstream from Blue Mountain Dam, and at mile 73.0 (117.5 km).

DRAINAGE AREA.--516 mi² (1,336 km²).

PERIOD OF RECORD.--January 1939 to current year. Published as Petit Jean Creek near Blue Mountain prior to October 1943, and as Petit Jean Creek near Waveland October 1943 to September 1965.

GAGE.--Water-stage recorder. Datum of gage is 339.70 ft (103.541 m) above mean sea level. Prior to Sept. 30, 1943, at site 1.8 mi (2.9 km) upstream at datum 9.54 ft (2.907 m) higher.

AVERAGE DISCHARGE.--35 years, 541 ft³/s (15.3 m³/s), 392,000 acre-ft/yr (483 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,070 ft³/s (115 m³/s) Dec. 4, gage height, 19.97 ft (6.087 m); minimum daily, 18 ft³/s (0.51 m³/s) July 27, 28.

Period of record: Maximum discharge, 62,600 ft³/s (1,770 m³/s) Apr. 16, 1939, gage height, 29.95 ft (9.129 m), site and datum then in use, or 34.0 ft (10.36 m) from floodmarks, present site; no flow at times in 1943, 1946. Maximum discharge since construction of Blue Mountain Dam in 1947, 8,580 ft³/s (243 m³/s) Jan. 2, 1947. gage height, 27.25 ft (8.306 m).

Maximum stage since at least 1910, that of Apr. 16, 1939.

REMARKS.--Records good. Flow regulated by Blue Mountain Lake, 1.4 mi (2.3 km) upstream, since March 1947. (See station 07259000.)

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	29	1,700	2,300	266	724	213	200	113	541	22	29
2	101	59	1,680	2,240	262	713	211	1,020	112	346	28	35
3	101	80	1,860	2,180	258	698	213	1,240	90	164	32	23
4	102	87	1,960	1,970	356	513	212	1,240	130	75	27	31
5	89	99	246	1,630	473	333	210	1,170	210	64	25	49
6	53	134	704	1,300	468	363	208	1,400	516	46	26	75
7	51	134	2,130	1,170	457	364	207	1,750	748	43	28	88
8	39	134	2,500	813	453	353	206	1,950	202	41	30	90
9	30	133	2,470	578	447	267	204	1,920	293	38	31	100
10	29	133	2,600	438	441	215	203	2,030	150	37	33	122
11	26	132	2,770	402	292	411	208	2,150	625	32	34	97
12	69	131	2,730	230	165	609	210	2,110	1,510	31	33	107
13	1,080	131	2,690	177	149	1,110	214	2,200	2,170	29	32	155
14	117	131	2,640	244	148	1,380	254	2,260	2,440	28	32	152
15	72	132	2,590	288	126	1,350	241	1,970	2,370	28	33	151
16	792	130	2,550	283	109	1,320	233	1,920	1,970	24	31	438
17	1,770	129	2,590	280	108	1,150	228	1,880	2,040	24	30	732
18	1,870	142	2,680	263	108	660	226	1,840	2,340	25	33	724
19	1,640	133	2,310	237	179	499	224	1,800	1,950	25	34	721
20	1,220	154	1,820	271	202	481	222	1,740	1,550	24	35	719
21	369	159	2,410	267	219	920	226	1,680	1,530	24	34	717
22	206	165	2,690	262	245	1,450	288	1,400	1,500	25	32	712
23	133	166	2,640	256	233	1,670	270	901	1,480	25	29	465
24	100	371	2,010	251	224	1,540	670	306	1,450	24	29	227
25	73	597	1,810	247	347	1,070	1,030	140	1,420	25	28	231
26	39	490	1,750	254	504	592	1,020	124	1,390	20	29	227
27	34	216	1,950	256	635	379	688	118	1,360	18	27	227
28	31	780	2,340	379	737	374	481	117	1,150	18	29	228
29	28	1,780	2,480	372	-----	370	487	115	695	21	33	231
30	31	1,730	2,430	273	-----	352	585	114	672	22	34	226
31	31	-----	2,370	270	-----	243	-----	114	-----	21	31	-----
TOTAL	10,412	8,821	68,100	20,381	8,611	22,473	10,092	38,919	34,176	1,908	944	8,129
MEAN	336	294	2,197	657	308	725	336	1,255	1,139	61.5	30.5	271
MAX	1,870	1,780	2,770	2,300	737	1,670	1,030	2,260	2,440	541	35	732
MIN	26	29	246	177	108	215	203	114	90	18	22	23
AC-FT	20,650	17,500	135,100	40,430	17,080	44,580	20,020	77,200	67,790	3,780	1,870	16,120
CAL YR 1973	TOTAL 443,710		MEAN 1,216	MAX 3,520	MIN 15	AC-FT 880,100						
WTR YR 1974	TOTAL 232,966		MEAN 638	MAX 2,770	MIN 18	AC-FT 462,100						

07260000 Dutch Creek at Waltreak, Ark.

LOCATION.--Lat 34°59'15", long 93°36'45", in SE¼NW¼ sec.24, T.4 N., R.25 W., Yell County, on left bank 0.2 mi (0.3 km) north of Waltreak, and at mile 21.0 (33.8 km).

DRAINAGE AREA.--81.4 mi² (210.8 km²).

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 371.48 ft (113.227 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--29 years, 93.5 ft³/s (2.65 m³/s), 15.60 in/yr (396 mm/yr), 67,740 acre-ft/yr (83.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,650 ft³/s (245 m³/s) June 7, gage height, 16.44 ft (5.011 m); minimum, 0.15 ft³/s (0.004 m³/s) Aug. 11, 12, gage height, 2.79 ft (0.850 m).

Period of record: Maximum discharge, 24,500 ft³/s (694 m³/s) July 26, 1969, gage height, 22.38 ft (6.821 m); no flow at times in most years.

Flood in 1927 reached a stage of 19.5 ft (5.94 m), discharge, about 14,600 ft³/s (413 m³/s), from information by local resident.

REMARKS.--Records good.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	109	130	63	83	43	34	403	15	9.9	.32	.63
2	12	56	103	53	72	38	31	1,350	14	8.8	.58	1.6
3	10	45	236	48	61	34	35	415	12	7.4	.64	3.0
4	9.9	43	3,240	45	52	31	32	551	90	6.4	.50	6.3
5	10	91	487	41	46	29	30	234	901	5.9	.45	7.2
6	9.8	69	284	40	43	133	27	150	192	6.8	.37	5.9
7	10	55	203	38	39	129	26	104	3,950	6.9	.30	5.2
8	12	49	163	36	36	82	24	73	785	6.0	.23	5.7
9	18	43	136	35	33	65	23	56	783	5.4	.20	6.8
10	23	40	108	82	31	55	21	47	382	6.6	.19	13
11	28	36	89	316	29	684	25	43	194	6.7	.16	380
12	110	33	77	188	27	376	38	42	124	4.2	.15	96
13	3,860	31	66	142	26	219	44	36	83	3.7	.19	43
14	452	29	58	119	25	164	44	31	59	4.5	.20	36
15	221	28	53	101	23	133	41	29	55	5.1	.17	30
16	147	27	47	84	23	105	38	27	362	5.2	.55	28
17	98	30	43	73	22	82	35	25	125	4.7	.90	74
18	69	34	40	65	22	67	32	22	71	3.6	.65	53
19	52	48	71	64	29	63	30	20	53	2.9	.51	38
20	43	113	250	145	28	57	28	19	41	2.2	.42	31
21	37	295	153	168	102	99	29	17	34	1.5	.48	28
22	32	136	125	127	292	89	159	18	28	1.0	.52	37
23	28	128	111	105	162	75	151	15	24	.85	.47	28
24	24	450	660	87	114	66	84	14	21	.69	.37	24
25	23	1,350	356	74	79	57	59	14	18	.54	.26	29
26	20	1,440	233	77	62	52	48	30	16	.60	.18	77
27	21	541	172	107	54	48	40	34	14	.62	.24	54
28	20	326	133	138	48	45	35	22	13	.53	.28	42
29	20	221	111	148	-----	42	30	18	11	.49	.28	36
30	18	168	91	123	-----	39	754	16	10	.45	.41	30
31	65	-----	76	102	-----	36	-----	16	-----	.42	.53	-----
TOTAL	5,515.7	6,064	8,105	3,034	1,663	3,237	2,027	3,891	8,480	120.59	11.70	1,249.33
MEAN	178	202	261	97.9	59.4	104	67.6	126	283	3.89	.38	41.6
MAX	3,860	1,440	3,240	316	292	684	754	1,350	3,950	9.9	.90	380
MIN	9.8	27	40	35	22	29	21	14	10	.42	.15	.63
CFSM	2.19	2.48	3.21	1.20	.73	1.28	.83	1.55	3.48	.05	.005	.51
1N.	2.52	2.77	3.70	1.39	.76	1.48	.93	1.78	3.88	.06	.005	.57
AC-FT	10,940	12,030	16,080	6,020	3,300	6,420	4,020	7,720	16,820	239	23	2,480

CAL YR 1973 TOTAL 81,875.25 MEAN 224 MAX 3,860 MIN .82 CFSM 2.75 1N 37.42 AC-FT 162,400
WTR YR 1974 TOTAL 43,398.32 MEAN 119 MAX 3,950 MIN .15 CFSM 1.46 1N 19.83 AC-FT 86,080

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE
10-13	0900	15.23	7,270
12- 4	0600	15.03	7,050
6- 7	1400	16.44	8,650

07260500 Petit Jean River at Danville, Ark.

LOCATION.--Lat 35°03'33", long 93°23'44", in NW¼SE¼ sec.25, T.5 N., R.23 W., Yell County, on left bank at downstream side of bridge on State Highway 10 at Danville, 0.3 mi (0.5 km) upstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 0.5 mi (0.8 km) upstream from Spring Creek, 0.6 mi (1.0 km) downstream from Dutch Creek, and at mile 48.8 (78.5 km).

DRAINAGE AREA.--764 mi² (1,979 km²).

PERIOD OF RECORD.--June 1916 to current year. Prior to October 1965, published as Petit Jean Creek at Danville.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 303.33 ft (92.455 m) above mean sea level. June 1, 1916, to Aug. 24, 1934, nonrecording gage on railroad bridge 0.3 mi (0.5 km) downstream at datum 0.25 ft (0.076 m) higher. Aug. 25, 1934, to July 12, 1939, nonrecording gage at present site and datum. Since June 18, 1954, auxiliary water-stage recorder 2.2 mi (3.5 km) downstream.

AVERAGE DISCHARGE.--58 years, 823 ft³/s (23.3 m³/s), 596,300 acre-ft/yr (735 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,200 ft³/s (232 m³/s) Dec. 5, gage height, 22.73 ft (6.928 m); minimum daily, 17 ft³/s (0.48 m³/s) July 29, 30.
Period of record: Maximum discharge, 70,800 ft³/s (2,010 m³/s) Apr. 17, 1939, gage height, 31.82 ft (9.699 m); no flow at times in 1924, 1934-36, 1943, 1956, 1963, 1965.

REMARKS.--Records good. Flow regulated by Blue Mountain Lake, 25.6 mi (41.2 km) upstream, since March 1947. (See station 07259000.) Danville diverted about 0.8 ft³/s (0.023 m³/s) for municipal use upstream from gage.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	263	2,070	2,470	531	775	352	2,040	127	621	18	49
2	111	215	1,920	2,360	503	757	337	1,830	123	451	33	55
3	123	183	1,990	2,280	475	738	337	3,020	119	311	40	58
4	119	199	5,100	2,200	446	710	329	2,510	101	125	41	42
5	115	257	7,100	1,950	555	515	300	2,050	1,020	82	37	40
6	97	269	3,700	1,610	577	984	284	1,580	981	75	34	56
7	71	261	2,440	1,420	561	820	279	1,740	1,830	61	31	109
8	66	249	2,710	1,160	541	662	272	1,910	4,080	55	30	119
9	56	235	2,790	820	527	557	255	1,980	4,240	52	34	121
10	45	223	2,670	1,040	515	443	253	1,950	3,090	52	36	134
11	44	213	2,760	1,770	497	1,290	260	2,070	1,350	52	39	517
12	111	207	2,830	1,160	308	1,930	345	2,150	1,420	42	40	596
13	4,400	199	2,800	774	240	1,480	319	2,120	1,890	39	45	329
14	6,850	189	2,740	624	226	1,660	337	2,200	2,270	41	59	286
15	3,070	181	2,680	644	222	1,640	352	2,220	2,470	56	56	265
16	1,100	175	2,620	606	193	1,570	324	2,010	2,720	40	54	296
17	1,530	171	2,550	563	178	1,490	313	1,910	2,430	34	51	685
18	1,900	259	2,580	533	171	1,190	303	1,850	2,330	30	51	779
19	1,890	243	2,740	484	204	1,080	293	1,800	2,370	29	48	734
20	1,530	305	2,720	543	306	991	284	1,750	1,840	29	59	706
21	960	664	2,450	654	386	1,320	279	1,690	1,590	26	56	698
22	371	585	2,660	591	860	1,610	563	1,630	1,540	26	54	677
23	279	661	2,820	533	748	1,870	728	1,210	1,500	29	49	666
24	207	2,060	3,360	493	577	1,910	569	691	1,460	26	44	383
25	175	3,180	3,330	562	482	1,630	1,080	251	1,420	30	42	365
26	131	3,750	2,670	473	600	1,160	1,140	202	1,380	44	41	368
27	111	3,850	2,340	571	645	714	1,090	182	1,340	31	37	378
28	101	2,560	2,360	665	763	587	628	169	1,300	20	39	337
29	85	2,200	2,560	806	-----	557	545	145	909	17	35	319
30	80	2,260	2,620	659	-----	527	1,060	132	656	17	44	303
31	167	-----	2,560	575	-----	473	-----	127	-----	20	48	-----
TOTAL	25,996	26,266	89,240	31,593	12,837	33,640	13,810	47,119	49,896	2,563	1,325	10,470
MEAN	839	876	2,879	1,019	458	1,085	460	1,520	1,663	82.7	42.7	349
MAX	6,850	3,850	7,100	2,470	860	1,930	1,140	3,020	4,240	621	59	779
MIN	44	171	1,920	473	171	443	253	127	101	17	18	40
CFSM	1.10	1.15	3.77	1.33	.60	1.42	.60	1.99	2.18	.11	.06	.46
IN.	1.27	1.28	4.35	1.54	.63	1.64	.67	2.29	2.43	.12	.06	.51
AC-FT	51,560	52,100	177,000	62,660	25,460	66,720	27,390	93,460	98,970	5,080	2,630	20,770
CAL YR 1973	TOTAL 665,121	MEAN 1,822	MAX 9,380	MIN 14	CFSM 2.38	IN 32.39	AC-FT 1,319,000					
WTR YR 1974	TOTAL 344,755	MEAN 945	MAX 7,100	MIN 17	CFSM 1.24	IN 16.79	AC-FT 683,800					

07261000 Cadron Creek near Guy, Ark.

LOCATION.--Lat 35°17'56", long 92°24'10", in NW¼SE¼ sec.29, T.8 N., R.13 W., Faulkner County, on left bank on downstream side of bridge on U.S. Highway 65, 4.3 mi (6.9 km) southwest of Guy, and 10.5 mi (16.9 km) upstream from Cove Creek, and at mile 48.5 (77.7 km).

DRAINAGE AREA.--169 mi² (438 km²).

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1965, published as North Fork Cadron Creek near Guy.

GAGE.--Water-stage recorder. Datum of gage is 371.68 ft (113.288 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 284 ft³/s (8,043 m³/s), 20.62 in/yr (524 mm/yr), 205,800 acre-ft/yr (254 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,800 ft³/s (306 m³/s) Dec. 4, gage height, 18.59 ft (5.666 m); minimum, 1.3 ft³/s (0.037 m³/s) Oct. 11, gage height, 1.49 ft (0.454 m).
Period of record: Maximum discharge, 18,600 ft³/s (527 m³/s) Aug. 14, 1957, gage height, 24.95 ft (7.605 m), from rating curve extended above 14,000 ft³/s (396 m³/s); no flow at times.

REMARKS.--Records good.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	418	611	215	398	310	162	172	1,840	35	9.0	1.7
2	7.1	276	499	191	355	282	160	170	875	32	6.7	132
3	7.6	211	700	182	306	259	161	178	546	28	6.2	111
4	6.6	205	8,780	175	261	235	160	164	387	25	4.5	58
5	5.1	406	2,560	168	238	212	158	155	674	22	3.2	36
6	4.3	306	1,270	167	223	228	158	137	1,510	19	2.9	24
7	3.6	251	884	167	206	268	159	134	5,920	16	2.9	17
8	3.2	206	692	167	188	222	160	138	4,820	14	3.8	13
9	2.6	184	569	167	176	204	158	137	2,440	13	11	10
10	2.0	157	462	391	170	195	156	135	1,850	18	12	9.7
11	2.1	154	390	1,430	169	645	159	135	1,030	14	9.1	17
12	17	138	350	924	169	954	199	188	848	10	7.1	13
13	1,000	125	320	663	169	651	217	146	580	8.7	10	13
14	957	118	275	548	182	504	236	135	434	10	15	16
15	427	114	260	460	166	413	291	798	357	11	12	13
16	294	104	236	392	178	354	238	487	302	11	14	12
17	209	97	201	348	174	296	197	299	236	8.1	11	14
18	164	286	195	320	174	263	174	210	217	7.0	19	12
19	135	718	243	295	339	268	163	160	175	6.0	25	11
20	113	663	604	315	365	277	152	136	147	5.2	15	9.0
21	98	1,660	502	371	777	370	165	233	135	4.3	8.4	9.6
22	86	868	427	320	2,140	375	1,690	420	120	4.3	5.5	8.2
23	79	2,130	379	306	1,130	339	1,360	476	104	3.8	3.9	6.5
24	74	3,340	424	282	788	318	803	311	92	3.6	2.8	5.7
25	67	4,130	441	262	570	277	561	235	82	18	2.2	9.9
26	66	2,730	390	273	469	251	426	463	72	198	1.8	9.8
27	78	2,170	368	446	399	231	333	519	62	94	1.8	9.2
28	105	1,720	318	700	349	215	269	327	54	42	1.8	11
29	100	1,070	299	754	-----	203	220	260	47	26	2.0	18
30	87	792	272	593	-----	187	187	203	40	18	1.8	18
31	217	-----	250	483	-----	170	-----	1,040	-----	12	1.6	-----
TOTAL	4,423.7	25,747	24,171	12,475	11,228	9,976	9,632	8,701	25,996	737.0	233.0	648.3
MEAN	143	858	780	402	401	322	321	281	867	23.8	7.52	21.6
MAX	1,000	4,130	8,780	1,430	2,140	954	1,690	1,040	5,920	198	25	132
MIN	2.0	97	195	167	166	170	152	134	40	3.6	1.6	1.7
CF5M	.85	5.08	4.62	2.38	2.37	1.91	1.90	1.66	5.13	.14	.04	.13
IN.	.97	5.67	5.32	2.75	2.47	2.20	2.12	1.92	5.72	.16	.05	.14
AC-FT	8,770	51,070	47,940	24,740	22,270	19,790	19,110	17,260	51,560	1,460	462	1,290

CAL YR 1973 TOTAL 210,750.43 MEAN 577 MAX 8,780 MIN 0 CF5M 3.41 IN 46.39 AC-FT 418,000
WTR YR 1974 TOTAL 133,968.00 MEAN 367 MAX 8,780 MIN 1.6 CF5M 2.17 IN 29.49 AC-FT 265,700

PEAK DISCHARGE (BASE, 4000 CFS)

DATE	TIME	G.H.T.	DISCHARGE
11-25	1015	12.65	5,300
12-04	1800	18.59	10,800
6- 8	0115	16.79	8,920

07261500 Fourche LaFave River near Gravelly, Ark.

LOCATION.--Lat 34°52'21", long 93°39'24", in NW¼NW¼ sec.34, T.3 N., R.25 W., Yell County, near left bank on downstream side of bridge on State Highway 28, 1.2 mi (1.9 km) downstream from Garner Creek, 1.9 mi (3.1 km) east of Gravelly, 6.4 mi (10.3 km) upstream from Gaffords Creek, and at mile 103.7 (166.9 km).

DRAINAGE AREA.--410 mi² (1,062 km²).

PERIOD OF RECORD.--February 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 410.50 ft (125.120 m) above mean sea level (levels by Corps of Engineers). Prior to May 11, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 540 ft³/s (15.3 m³/s), 17.89 in/yr (454 mm/yr), 391,200 acre-ft/yr (482 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 57,600 ft³/s (1,630 m³/s) June 7, gage height, 29.23 ft (8.909 m); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 8, gage height, 0.98 ft (0.299 m).
Period of record: Maximum discharge, 69,400 ft³/s (1,970 m³/s) May 20, 1960, and July 26, 1969, gage height, 30.30 ft (9.235 m); no flow at times.

REMARKS.--Records good.

REVISIONS (WATER YEARS)--WSP 1007: 1939. WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	580	840	430	473	299	220	2,500	168	61	32	22
2	137	446	668	371	426	277	208	4,430	146	53	39	97
3	112	330	752	343	382	258	192	2,930	127	48	40	884
4	98	281	8,770	317	337	240	184	3,710	283	42	41	497
5	86	274	3,090	296	304	268	190	1,700	1,580	38	41	261
6	78	252	1,690	281	282	1,080	175	1,100	1,540	35	10	184
7	75	234	1,190	268	261	1,690	164	783	28,700	34	6.4	148
8	67	216	941	253	242	1,010	159	573	21,700	30	5.4	122
9	62	201	771	242	225	740	148	447	5,590	27	5.4	111
10	58	185	635	860	212	592	137	358	3,070	25	5.9	108
11	60	172	527	3,150	199	7,600	128	312	1,530	23	6.5	3,090
12	213	160	460	1,520	189	3,730	164	288	978	22	7.3	2,190
13	16,200	150	407	1,070	181	1,800	212	249	694	19	8.3	1,220
14	4,110	139	359	864	173	1,260	292	213	524	19	9.0	1,230
15	1,540	130	322	715	168	994	259	188	425	17	24	808
16	1,020	123	288	601	164	799	220	170	1,810	16	21	565
17	749	115	260	519	159	634	202	156	972	14	15	1,340
18	537	116	240	465	154	529	188	140	564	13	29	1,510
19	411	117	280	430	170	468	176	122	402	12	34	943
20	341	141	1,150	616	190	418	162	109	300	11	40	637
21	287	564	1,030	898	248	486	158	97	250	8.4	19	826
22	249	608	774	742	926	517	889	96	208	8.9	15	1,480
23	218	855	654	635	831	447	1,360	85	177	11	24	832
24	193	3,190	3,010	544	621	399	802	76	151	12	23	544
25	173	6,850	2,420	476	487	355	547	73	131	11	17	580
26	158	7,680	1,470	449	405	331	418	1,690	114	13	14	1,320
27	157	4,410	1,080	513	357	305	335	1,020	97	14	13	1,010
28	148	2,210	836	605	326	278	282	458	88	14	12	699
29	134	1,440	687	674	-----	266	242	291	78	15	12	503
30	123	1,080	584	602	-----	248	1,190	218	69	24	13	381
31	293	-----	500	535	-----	238	-----	188	-----	30	16	-----
TOTAL	28,264	33,249	36,685	20,284	9,092	28,556	10,003	24,770	72,466	720.3	598.2	24,142
MEAN	912	1,108	1,183	654	325	921	333	799	2,416	23.2	19.3	805
MAX	16,200	7,680	8,770	3,150	926	7,600	1,360	4,430	28,700	61	41	3,090
MIN	58	115	240	242	154	238	128	73	69	8.4	5.4	22
CFSM	2.22	2.70	2.89	1.60	.79	2.25	.81	1.95	5.89	.06	.05	1.96
IN.	2.56	3.02	3.33	1.84	.82	2.59	.91	2.25	6.57	.07	.05	2.19
AC-FT	56,060	65,950	72,760	40,230	18,030	56,640	19,840	49,130	143,700	1,430	1,190	47,890

CAL YR 1973 TOTAL 410,913.52 MEAN 1,126 MAX 16,200 MIN .35 CFSM 2.75 IN 37.28 AC-FT 815,000
WTR YR 1974 TOTAL 288,829.50 MEAN 791 MAX 28,700 MIN 5.4 CFSM 1.93 IN 26.21 AC-FT 572,900

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
10-13	1500	22.57	22,100	3-11	1800	16.28	12,200
11-26	2000	15.56	11,200	6-7	2100	29.23	57,600
12-4	0700	16.46	12,400				

07262000 Nimrod Lake near Nimrod, Ark.

LOCATION.--Lat 34°57'07", long 93°09'38", in NW¼SW¼ sec.32, T.4 N., R.20 W., Perry County, at Nimrod Dam on Fourche LaFave River, 4.8 mi (7.7 km) west of Nimrod, 10.2 mi (16.4 km) upstream from South Fourche LaFave River, and at mile 62.6 (100.7 km).

DRAINAGE AREA.--680 mi² (1,760 km²).

PERIOD OF RECORD.--May 1942 to current year. Prior to October 1944, monthend contents only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 218,400 acre-ft (269 hm³) June 18, elevation, 365.63 ft (111.444 m); minimum, 28,580 acre-ft (35.2 hm³) Nov. 14, elevation, 341.88 ft (104.205 m).
Period of record: Maximum contents, 370,100 acre-ft (456 hm³) Apr. 24, 1973, elevation, 374.82 ft (114.245 m); minimum since initial filling to conservation pool, 4,620 acre-ft (5.70 hm³) Dec. 1, 1960, elevation, 327.52 ft (99.828 m).

REMARKS.--Lake is formed by concrete-gravity dam. Storage began May 18, 1942. Capacity between elevations 342.0 ft (104.24 m) and 373.0 ft (113.69 m) is 307,000 acre-ft (378 hm³) and is reserved for flood-control storage. Figures given herein represent total contents. Contents computed from daily readings at 2400 to five significant figures prior to Oct. 1, 1963. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest.....	373.0 (113.69 m)	336,000 (414 hm ³)
Top of conservation pool.....	342.0 (104.24 m)	29,000 (35.8 hm ³)
Bottom of lowest outlet.....	314.9 (95.98 m)	867 (1.07 hm ³)

COOPERATION.--Records furnished by Corps of Engineers

Capacity table (elevation, in feet, and contents, in acre-feet)

341 (103.9 m)	25,460 (31.4 hm ³)	355 (108.2 m)	105,100 (130 hm ³)
345 (105.2 m)	41,020 (50.6 hm ³)	360 (109.7 m)	151,800 (187 hm ³)
350 (106.7 m)	68,600 (84.6 hm ³)	366 (111.6 m)	223,500 (276 hm ³)

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29,610	59,210	125,800	118,800	34,890	29,970	29,860	47,940	40,720	166,100	36,240	32,810
2	29,830	56,780	124,700	113,400	35,520	30,000	29,580	52,600	40,770	158,700	36,110	33,320
3	29,790	53,560	132,500	107,000	36,030	29,970	29,830	60,170	40,810	152,300	35,940	33,070
4	29,540	50,310	162,700	100,400	35,650	30,000	29,440	67,320	42,160	144,300	35,820	32,900
5	29,290	47,100	175,900	93,220	34,290	29,970	29,290	72,500	48,480	136,600	35,610	31,850
6	29,260	43,690	180,700	86,350	32,770	31,140	29,470	72,570	52,760	128,100	35,480	31,670
7	29,150	40,130	182,400	78,280	31,350	34,130	30,290	68,600	81,430	119,500	35,350	31,740
8	29,080	36,960	182,900	70,070	30,360	34,800	30,180	63,670	155,200	111,300	35,270	31,670
9	29,220	34,250	183,000	61,640	30,080	34,460	30,470	58,640	189,500	104,100	35,310	31,850
10	29,260	32,450	180,900	64,180	29,650	33,960	30,470	53,440	199,400	100,100	35,610	32,060
11	29,540	31,030	177,400	78,280	29,470	45,960	30,640	48,530	203,400	95,910	35,520	33,870
12	30,780	29,470	173,400	84,420	29,540	66,940	30,750	45,220	205,600	91,650	35,650	40,770
13	67,770	28,660	168,200	87,780	29,610	71,350	31,250	43,240	207,000	87,570	36,030	41,070
14	101,200	28,730	162,800	86,920	29,650	71,420	32,350	41,860	208,100	83,570	35,610	41,510
15	105,000	28,900	157,600	81,350	29,930	68,980	33,110	41,220	211,000	79,360	35,100	40,890
16	107,600	29,010	151,800	73,910	29,930	64,950	33,960	41,220	215,700	74,810	34,510	40,000
17	107,800	29,190	145,900	66,040	29,900	60,390	34,590	41,220	217,900	70,650	33,740	39,160
18	106,400	29,580	139,500	58,640	30,040	55,870	35,270	41,370	218,200	66,100	33,700	39,330
19	103,700	29,830	134,900	51,460	30,180	51,180	35,770	41,420	216,000	61,690	33,660	37,680
20	100,600	30,750	131,900	44,820	30,180	47,200	36,200	41,420	213,500	57,510	33,620	35,440
21	97,170	31,420	128,900	38,690	32,310	42,850	37,550	41,560	209,900	53,050	33,620	32,730
22	93,780	32,980	125,700	34,590	32,690	38,780	41,760	41,610	206,000	48,830	33,580	32,560
23	89,990	37,210	122,900	32,280	32,980	34,890	45,270	41,510	201,500	44,720	33,410	32,240
24	86,350	51,410	129,600	31,600	32,560	32,060	45,470	41,370	198,800	41,120	33,320	31,420
25	83,430	73,910	137,400	30,890	31,670	31,000	44,720	41,510	197,700	39,290	33,190	30,540
26	78,860	96,620	141,000	30,860	30,570	30,180	43,390	42,850	196,400	37,210	33,150	30,360
27	75,640	114,900	140,400	30,960	29,930	30,110	41,960	44,920	193,300	36,540	33,070	30,470
28	71,860	120,900	137,300	31,420	29,830	30,220	41,120	44,480	187,500	36,410	32,980	30,040
29	67,580	125,000	132,900	32,100	-----	30,250	41,910	43,440	180,700	36,490	32,940	29,330
30	63,860	126,400	128,500	33,240	-----	30,180	42,950	42,210	173,300	36,490	32,940	29,330
31	61,410	-----	123,600	34,080	-----	30,080	-----	41,220	-----	36,370	32,860	-----
MAX	107,800	126,400	183,000	118,800	36,030	71,420	45,470	72,570	218,200	166,100	36,240	41,510
MIN	29,080	28,660	122,900	30,860	29,470	29,970	29,290	41,220	40,720	36,370	32,860	29,330
(†)	348.86	357.42	357.13	343.36	342.23	342.30	345.39	345.04	361.98	343.90	343.07	342.09
(‡)	+32,150	+64,990	-2,800	-89,520	-4,250	+250	+12,870	-1,730	+132,080	-136,930	-3,510	-3,530

CAL YR 1973..... † +85,240

WTR YR 1974..... ‡ +70

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07263000 South Fourche LaFave River near Hollis, Ark.

LOCATION.--Lat 34°54'41", long 93°03'21", in SE¼NE¼ sec.18, T.3 N., R.19 W., Perry County, on left bank 0.8 mi (1.3 km) upstream from Big Cove Creek, 2.1 mi (3.4 km) downstream from Cedar Creek, 4.0 mi (6.4 km) north-east of Hollis, and at mile 5.6 (9.0 km).

DRAINAGE AREA.--210 mi² (544 km²).

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 366.10 ft (111.587 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--33 years, 294 ft³/s (8.33 m³/s), 18.92 in/yr (481 mm/yr), 213,000 acre-ft/yr (263 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 28,600 ft³/s (810 m³/s) June 7, gage height, 15.58 ft (4.749 m); minimum, 1.3 ft³/s (0.037 m³/s) July 23, 25.
Period of record: Maximum discharge, 54,400 ft³/s (1,540 m³/s) Mar. 30, 1945, gage height, 19.47 ft (5.934 m), from rating curve extended above 31,000 ft³/s (878 m³/s) on basis of slope-area measurement of peak flow; no flow at times.

REMARKS.--Records good.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS.--WRD 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	500	323	175	265	160	77	93	250	11	7.8	94
2	25	247	249	145	224	146	69	103	164	9.3	15	273
3	20	167	2,120	143	191	134	86	146	120	7.5	10	444
4	17	136	12,400	125	163	122	112	1,560	156	6.2	5.3	154
5	15	123	1,480	121	144	112	83	465	1,710	5.9	3.7	81
6	13	107	719	118	132	208	65	245	758	5.3	2.8	50
7	12	94	466	116	120	259	56	171	14,100	4.5	2.3	36
8	12	83	343	110	106	199	52	134	6,950	4.1	1.9	28
9	11	75	273	102	94	166	48	107	2,620	3.7	1.7	25
10	9.9	64	224	3,670	86	150	44	84	1,360	3.3	1.8	27
11	9.7	56	189	3,650	77	4,260	49	74	587	2.5	2.0	208
12	10	51	166	1,040	70	1,610	224	64	337	2.4	7.1	308
13	6,310	46	150	624	64	735	227	50	233	2.2	6.6	170
14	1,430	41	136	458	61	447	158	52	177	2.0	8.4	160
15	499	38	122	347	64	321	126	1,200	145	1.9	31	121
16	292	34	106	277	97	249	102	527	183	1.6	35	86
17	204	33	94	236	108	202	86	256	188	1.6	20	72
18	155	45	86	209	106	173	74	168	132	2.0	14	71
19	127	58	170	192	196	158	66	124	100	3.6	23	71
20	105	771	809	216	194	146	56	94	77	3.2	29	52
21	88	984	438	218	683	246	180	90	60	2.2	41	44
22	73	455	297	192	1,810	266	5,340	112	47	1.6	24	37
23	59	1,320	257	175	704	201	1,220	81	38	1.4	15	37
24	50	3,480	3,060	160	430	173	536	70	30	1.4	11	35
25	42	3,180	1,400	148	293	152	319	55	25	1.5	8.7	44
26	38	4,130	665	155	233	140	227	110	22	3.9	6.7	156
27	39	1,930	460	207	199	130	177	121	19	13	5.9	131
28	61	1,200	335	1,130	177	122	146	114	16	6.4	4.8	87
29	79	678	277	762	-----	113	124	76	15	4.0	4.8	63
30	62	456	232	475	-----	102	104	55	13	3.2	165	46
31	453	-----	211	339	-----	88	-----	122	-----	2.5	158	-----
TOTAL	10,354.6	20,582	28,257	16,035	7,091	11,690	10,233	6,723	30,632	124.9	673.3	3,211
MEAN	334	686	912	517	253	377	341	217	1,021	4.03	21.7	107
MAX	6,310	4,130	12,400	3,670	1,810	4,260	5,340	1,560	14,100	13	165	444
MIN	9.7	33	86	102	61	88	44	50	13	1.4	1.7	25
CF5M	1.59	3.27	4.34	2.46	1.20	1.80	1.62	1.03	4.86	.02	.10	.51
IN.	1.83	3.65	5.01	2.84	1.26	2.07	1.81	1.19	5.43	.02	.12	.57
AC-FT	20,540	40,820	56,050	31,810	14,060	23,190	20,300	13,340	60,760	248	1,340	6,370

CAL YR 1973 TOTAL 215,271.9 MEAN 590 MAX 12,400 MIN 3.2 CF5M 2.81 IN 38.13 AC-FT 427,000
WTR YR 1974 TOTAL 145,606.8 MEAN 399 MAX 14,100 MIN 1.4 CF5M 1.90 IN 25.79 AC-FT 288,800

PEAK DISCHARGE (BASE, 9,000 CF5)

DATE	TIME	G.H.T.	DISCHARGE
10-13	1200	11.53	14,400
12- 4	0100	14.12	22,500
6- 7	1115	15.58	28,600

07263450 Arkansas River at Murray Dam, at Little Rock, Ark.
(International Hydrological Decade River Station)

LOCATION.--Lat 34°47'27", long 92°21'32", in sec.23, T.2 N., R.13 W., Pulaski County, in Murray Dam control house on right bank and at mile 141.5 (227.7 km).

DRAINAGE AREA.--158,030 mi² (409,300 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--September 1927 to current year. Prior to October 1969, published as 07263500 Arkansas River at Little Rock. Monthly discharge only for some periods, published in WSP 1311. Gage-height records collected at or near former site since 1873 are contained in reports of National Weather Service. Gage-height records collected at site 5.5 mi (8.8 km) downstream since 1883, and intermittent records of discharge since 1885 are contained in reports of Mississippi River Commission.

GAGE.--Water-stage and gage position recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1934, nonrecording gage, Oct. 1, 1934, to May 9, 1970, recording gage at site 6.2 mi (10.0 km) downstream at datum 223.61 ft (68.156 m) higher. Sept. 20, 1968, to May 9, 1970, auxiliary water-stage recorder 5.5 mi (8.8 km) upstream from former gage.

AVERAGE DISCHARGE.--47 years, 41,040 ft³/s (1,160 m³/s), 29,730,000 acre-ft/yr (36,660 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 304,000 ft³/s (8,610 m³/s) Nov. 27, tailwater elevation, 253.96 ft (77.407 m); minimum daily discharge, 2,640 ft³/s (74.8 m³/s) Aug. 8.

Period of record: Maximum discharge, 536,000 ft³/s (15,200 m³/s) May 27, 1943, gage height, 30.05 ft (9.159 m), site and datum then in use; minimum, 850 ft³/s (24.1 m³/s) Aug. 23, 1934.

Flood in June 1833 reached a stage of 34.6 ft (10.55 m) former site and datum. Flood of Apr. 20, 1927, reached a stage of 33.0 ft (10.06 m), former site and datum.

REMARKS.--Records good. Beginning May 10, 1970, daily discharge computed from relation between discharge, head, and gate openings. Flow regulated by many locks, dams, and reservoirs upstream. Water-quality records for this site, and David D. Terry Lock and Dam, 16.8 mi (27.0 km) downstream, for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42,500	87,900	182,000	129,000	55,600	57,100	133,000	70,700	89,000	41,200	10,200	7,140
2	41,600	88,300	152,000	130,000	53,900	58,200	125,000	102,000	83,600	34,600	15,900	49,600
3	39,300	91,400	149,000	127,000	49,400	57,300	109,000	119,000	69,700	44,600	10,300	53,000
4	37,200	90,800	190,000	117,000	54,000	49,800	109,000	130,000	53,000	46,900	8,050	61,600
5	45,300	88,100	222,000	91,700	47,800	41,300	96,400	122,000	65,200	46,300	4,890	70,700
6	45,800	78,700	215,000	63,700	43,500	42,700	70,600	104,000	120,000	38,800	3,570	62,700
7	45,700	62,300	191,000	57,500	47,200	51,400	56,100	88,200	135,000	38,900	2,670	54,200
8	41,600	55,900	159,000	57,600	42,000	51,900	52,700	93,100	161,000	43,800	2,640	45,000
9	45,100	47,800	150,000	62,800	34,400	49,800	42,100	75,000	194,000	45,700	13,500	44,500
10	42,800	57,800	149,000	65,200	28,300	49,900	38,100	74,300	200,000	42,200	25,200	42,900
11	38,500	54,200	142,000	80,100	39,100	55,600	41,700	77,000	206,000	34,100	25,900	46,400
12	42,800	49,000	137,000	72,600	37,200	86,800	49,400	62,900	199,000	32,100	3,220	53,600
13	62,200	46,600	140,000	68,100	26,000	112,000	54,700	50,400	198,000	31,900	6,040	60,300
14	117,000	46,700	136,000	71,600	29,500	132,000	60,800	49,600	189,000	30,100	23,000	59,000
15	130,000	42,400	132,000	61,600	31,100	144,000	63,300	50,500	177,000	33,900	19,800	56,800
16	138,000	40,300	130,000	60,100	32,200	152,000	54,200	58,100	172,000	23,400	17,000	51,400
17	142,000	44,100	129,000	57,000	32,100	156,000	43,500	69,300	173,000	32,100	16,300	45,900
18	142,000	36,600	127,000	56,700	25,200	153,000	42,700	60,600	173,000	26,000	15,900	33,300
19	134,000	19,200	125,000	48,200	40,400	151,000	44,200	50,200	163,000	26,400	13,400	27,800
20	131,000	35,700	133,000	49,100	43,800	145,000	38,500	46,900	151,000	20,400	16,200	36,200
21	131,000	58,200	142,000	54,200	43,700	147,000	40,400	47,800	149,000	17,000	15,100	55,600
22	128,000	66,600	140,000	56,000	59,400	158,000	66,200	49,700	149,000	19,300	16,400	59,000
23	123,000	78,000	135,000	55,300	72,000	154,000	56,700	48,700	153,000	19,600	18,900	57,400
24	116,000	122,000	133,000	53,300	90,100	154,000	63,900	49,400	153,000	13,200	22,100	53,400
25	110,000	208,000	144,000	45,100	82,200	152,000	50,600	49,800	150,000	20,000	18,600	50,300
26	104,000	275,000	155,000	44,800	71,600	149,000	44,600	49,700	139,000	14,000	17,100	47,500
27	95,600	301,000	147,000	44,200	58,700	149,000	41,900	51,600	99,800	20,200	21,900	44,400
28	87,500	293,000	137,000	58,100	51,800	147,000	40,200	62,800	67,600	27,000	16,200	52,800
29	76,400	252,000	133,000	58,400	-----	141,000	38,800	75,100	55,300	3,950	6,630	53,400
30	80,900	212,000	132,000	58,400	-----	139,000	45,400	80,200	50,100	10,200	3,320	46,000
31	84,300	-----	128,000	56,100	-----	139,000	-----	81,800	-----	13,700	2,760	-----
TOTAL	2,641.1M	3,029.6M	4,616.0M	2,110.5M	1,322.2M	3,425.8M	1,813.7M	2,200.4M	4,137.3M	891.550	412.690	1,481.8M
MEAN	85,200	101,000	148,900	68,080	47,220	110,500	60,460	70,980	137,900	28,760	13,310	49,390
MAX	142,000	301,000	222,000	130,000	90,100	158,000	133,000	130,000	206,000	46,900	25,900	70,700
MIN	37,200	19,200	125,000	44,200	25,200	41,300	38,100	46,900	50,100	3,950	2,640	7,140
AC-FT	5,239M	6,009M	9,156M	4,186M	2,623M	6,795M	3,597M	4,364M	8,206M	1,768M	818,600	2,939M

CAL YR 1973 TOTAL 37,855,840 MEAN 103,700 MAX 322,000 MIN 3,460 AC-FT 75,090,000
WTR YR 1974 TOTAL 28,082,680 MEAN 76,940 MAX 301,000 MIN 2,640 AC-FT 55,700,000

07264000 Bayou Meto near Lonoke, Ark.

LOCATION.--Lat 34°44'10", long 91°54'58", in SW¼ sec.6, T.1 N., R.8 W., Lonoke County, near left bank on downstream side of bridge on State Highway 31, 3.0 mi (4.8 km) upstream from Brushy Slough, 3.5 mi (5.6 km) south of Lonoke, and at mile 106.4 (171.2 km).

DRAINAGE AREA.--207 mi² (536 km²).

PERIOD OF RECORD.--October 1954 to current year. Gage-height record and results of discharge measurements at site 4.8 mi (7.7 km) upstream since June 1948 are contained in reports of Corps of Engineers, Vicksburg district; published as "Big Bayou Meto near Lonoke."

GAGE.--Water-stage recorder. Datum of gage is 199.11 ft (60.689 m) above mean sea level. Prior to Feb. 10, 1955, water-stage recorder at site 4.8 mi (7.7 km) upstream at datum 6.97 ft (2.124 m) higher. Feb. 10 to June 29, 1955, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--20 years, 293 ft³/s (8.30 m³/s), 212,300 acre-ft/yr (262 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,710 ft³/s (105 m³/s) Nov. 30, gage height, 25.32 ft (7.718 m); minimum daily, 9.0 ft³/s (0.25 m³/s) July 24-25.
Period of record: Maximum discharge, 4,700 ft³/s (133 m³/s) May 18, 1968, gage height, 26.55 ft (8.092 m); no flow at times in 1955, 1956, 1964.

REMARKS.--Records good. Part of low flow is drainage from areas irrigated with ground water and from large minnow farm supplied with ground water. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	134	3,550	379	865	472	103	1,630	617	66	61	77
2	19	329	3,160	308	879	337	96	1,370	718	60	49	78
3	17	433	2,740	265	830	264	81	1,120	753	50	43	161
4	14	461	3,000	228	722	213	72	874	782	45	46	248
5	13	448	2,980	199	588	182	65	655	865	40	37	275
6	12	422	2,810	187	455	155	60	464	946	35	36	228
7	12	403	2,830	195	352	143	50	350	1,330	30	33	175
8	12	369	2,810	227	279	131	50	250	1,790	30	25	129
9	42	322	2,630	293	230	124	45	300	2,120	25	22	92
10	203	270	2,330	600	189	117	45	359	2,610	25	23	74
11	223	208	2,070	1,000	155	154	60	425	3,090	20	30	55
12	204	160	1,840	1,150	137	198	90	394	3,160	20	33	42
13	250	135	1,630	1,250	123	330	170	295	2,960	20	34	30
14	345	132	1,410	1,390	115	446	270	219	2,600	15	31	24
15	439	122	1,170	1,490	108	476	300	243	2,220	15	28	22
16	541	93	958	1,480	117	428	260	285	1,940	15	32	21
17	604	70	740	1,380	110	336	200	330	1,690	15	38	25
18	627	94	573	1,220	127	252	150	341	1,430	15	33	23
19	599	142	447	1,060	239	194	120	292	1,160	10	32	21
20	505	278	397	925	280	160	110	228	883	10	35	18
21	370	450	368	790	437	161	600	206	601	10	32	15
22	244	512	395	673	622	151	1,120	209	378	10	21	13
23	163	586	397	613	651	162	1,930	185	250	10	19	13
24	100	847	375	555	683	172	2,500	162	185	9.0	18	13
25	78	1,080	372	500	723	161	3,230	158	150	9.0	18	14
26	74	1,460	434	450	745	159	3,350	158	133	15	17	15
27	71	2,310	520	425	709	151	3,110	149	117	35	17	16
28	55	3,190	547	577	616	143	2,670	142	99	90	22	22
29	52	3,630	541	719	-----	130	2,200	137	84	128	32	25
30	59	3,700	506	768	-----	120	1,880	125	68	100	55	23
31	89	-----	447	812	-----	115	-----	281	-----	83	70	-----
TOTAL	6,059	22,790	44,977	22,108	12,086	6,737	24,987	12,336	35,729	1,060.0	1,022	1,987
MEAN	195	760	1,451	713	432	217	833	398	1,191	34.2	33.0	66.2
MAX	627	3,700	3,550	1,490	879	476	3,350	1,630	3,160	128	70	275
MIN	12	70	368	187	108	115	45	125	68	9.0	17	13
AC-FT	12,020	45,200	89,210	43,850	23,970	13,360	49,560	24,470	70,870	2,100	2,030	3,940
CAL YR 1973	TOTAL	213,961.0	MEAN	586	MAX	4,080	MIN	11	AC-FT	424,400		
WTR YR 1974	TOTAL	191,878.0	MEAN	526	MAX	3,700	MIN	9.0	AC-FT	380,600		

MISSISSIPPI RIVER MAIN STEM

07265450 Mississippi River near Arkansas City, Ark.

LOCATION.--Lat 33°33'55", long 91°14'35", sec.18, T.13 S., R.1 W., Desha County, on right bank 3.0 mi (4.8 km) southwest of Arkansas City, and at mile 554.1 (891.5 km).

DRAINAGE AREA.--1,130,600 mi² (2,928,300 km²) approximately.

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. Gage-height records since 1879 are contained in reports of Mississippi River Commission, and National Weather Service. Intermittent records of discharge since 1884 and daily discharge since Jan. 1, 1928, in reports of Mississippi River Commission.

GAGE.--Nonrecording gage. Datum of gage is 96.66 ft (29.462 m) above mean sea level. Prior to Sept. 3, 1930, at site 4.0 mi (6.4 km) upstream, Sept. 3, 1930, to Feb. 29, 1944, at site 1.9 mi (3.1 km) upstream, and Mar. 1, 1944, to Oct. 31, 1948, at site 1.2 mi (1.9 km) upstream, all at present datum.

AVERAGE DISCHARGE.--46 years, 548,000 ft³/s (15,500 m³/s), 397,000,000 acre-ft/yr (490 km³/yr).

EXTREMES.--Current year: Maximum daily discharge, 1,490,000 ft³/s (42,200 m³/s) Feb. 8-10; maximum gage height, 37.53 ft (11.439 m) Feb. 10; minimum daily, 276,000 ft³/s (7,820 m³/s) Aug. 9.
Period of record: Maximum discharge, 2,159,000 ft³/s (61,100 m³/s) Feb. 16, 1937; maximum gage height, 53.86 ft (16.417 m) Feb. 17, 1937; minimum discharge, 88,200 ft³/s (2,500 m³/s) Oct. 31, 1939.
The flood of 1927 was the greatest since at least 1879. A stage of 60.4 ft (18.41 m) occurred on Apr. 21, 1927, prior to levee breaks, at site used prior to 1930, and a discharge of about 2,472,000 ft³/s (70,000 m³/s) occurred in early May.

REMARKS.--Flow regulated by many locks, dams, and reservoirs upstream.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR DCT08ER 1973 TO SEPTEMBER 1974												
DAY	OCT	NOV	UEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	473	970	1,000	1,430	1,050	1,170	892	1,050	824	334	287
2	300	450	942	1,060	1,440	1,060	1,140	872	1,060	822	327	358
3	348	440	991	1,080	1,450	1,060	1,120	853	1,070	821	321	401
4	391	447	1,000	1,100	1,460	1,060	1,080	838	1,070	821	316	431
5	438	474	1,020	1,120	1,470	1,050	1,020	828	1,070	822	312	460
6	473	496	1,100	1,130	1,480	1,020	996	813	1,070	823	304	483
7	510	518	1,180	1,130	1,480	997	975	793	1,090	822	295	498
8	540	523	1,180	1,130	1,490	969	954	779	1,130	817	283	512
9	569	520	1,190	1,130	1,490	910	950	766	1,160	791	276	526
10	581	510	1,200	1,140	1,490	860	947	755	1,200	759	279	538
11	591	494	1,200	1,170	1,480	850	948	743	1,220	722	289	547
12	594	465	1,200	1,220	1,460	849	951	735	1,250	691	305	556
13	595	438	1,200	1,250	1,440	869	965	726	1,280	656	294	561
14	589	412	1,200	1,270	1,420	920	987	718	1,290	638	295	553
15	575	400	1,200	1,280	1,400	982	1,010	706	1,300	616	311	521
16	566	387	1,180	1,290	1,360	1,010	1,040	690	1,310	580	337	485
17	559	378	1,160	1,290	1,320	1,020	1,060	685	1,320	540	357	480
18	552	362	1,100	1,290	1,270	1,040	1,070	690	1,310	497	381	477
19	579	347	1,130	1,300	1,160	1,080	1,070	700	1,310	454	398	472
20	587	332	946	1,300	1,110	1,110	1,070	729	1,280	441	398	464
21	593	327	876	1,300	1,070	1,140	1,080	772	1,250	426	391	458
22	601	348	840	1,310	1,040	1,180	1,080	805	1,210	411	373	450
23	608	380	810	1,320	1,010	1,210	1,080	838	1,160	403	353	452
24	614	404	790	1,340	1,000	1,240	1,080	869	1,110	395	347	444
25	619	450	775	1,360	1,000	1,280	1,070	898	1,060	385	340	424
26	618	519	761	1,370	1,010	1,290	1,020	911	1,010	377	334	391
27	603	620	768	1,380	1,020	1,290	994	928	964	369	329	356
28	577	740	778	1,390	1,040	1,280	967	944	900	361	319	351
29	541	850	795	1,400	-----	1,250	942	972	863	355	306	351
30	519	930	832	1,410	-----	1,200	918	1,000	838	347	291	352
31	493	-----	875	1,420	-----	1,190	-----	1,030	-----	340	283	-----
TOTAL	16,618	14,434	31,229	38,680	36,290	33,316	30,754	25,278	34,205	18,126	10,078	13,639
MEAN	536	481	1,007	1,248	1,296	1,075	1,025	815	1,140	585	325	455
MAX	619	930	1,200	1,420	1,490	1,290	1,170	1,030	1,320	824	398	561
MIN	295	327	761	1,000	1,000	849	918	685	838	340	276	287
AC-FT	32,960	28,630	61,940	76,720	71,980	66,080	61,000	50,140	67,850	35,950	19,990	27,050
CAL YR 1973	TOTAL 334,647			MEAN 917	MAX 1,880	MIN 233.0	AC-FT 663,800					
WTR YR 1974	TOTAL 302,647			MEAN 824	MAX 1,490	MIN 276.0	AC-FT 600,300					

LOCATION.--Lat 33°33'07", long 94°02'28", in NW¼SW¼ sec.7, T.14 S., R.28 W., Miller County, near right bank on downstream side of bridge on U.S. Highway 71 at Index, 2.2 mi (3.5 km) south of Ogden, 20.6 mi (33.1 km) upstream from Little River, and at mile 485.3 (780.8 km).

PERIOD OF RECORD.--July 1936 to current year. Gage-height records collected at same site since 1917 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 246.87 ft (75.246 m) above mean sea level. Prior to Dec. 12, 1939, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum discharge, 68,200 ft³/s (1,930 m³/s) Nov. 29, gage height, 18.65 ft (5.685 m); minimum, 1,980 ft³/s (56.1 m³/s) Aug. 10, 11, gage height, 4.47 ft (1.362 m).
Period of record: Maximum discharge, 297,000 ft³/s (8,410 m³/s) Feb. 23, 1938, gage height, 34.25 ft (10.439 m); minimum, 378 ft³/s (10.7 m³/s) Nov. 28, 1956.

REMARKS.--Records good. Some regulation by Lake Texoma (Texas), 241 mi (388 km) upstream since Oct. 31, 1943, capacity, 5,392,900 acre-ft (6,650 hm³), by Pat Mayse Lake (Texas) since Sept. 28, 1967, capacity, 352,700 acre-ft (435 hm³), and by Hugo Lake (Oklahoma) since Jan. 18, 1974, capacity, 966,700 acre-ft (1,190 hm³).

REVISIONS.--WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35,000	27,600	62,500	11,900	10,300	7,080	7,070	5,700	10,600	4,790	3,530	4,170
2	30,300	31,800	61,200	9,330	8,790	5,160	7,130	6,250	8,780	4,740	2,760	5,930
3	24,200	36,800	60,300	7,300	6,860	3,820	6,150	17,500	9,720	4,590	2,710	7,350
4	21,900	32,900	59,300	6,810	5,770	3,160	3,920	36,300	12,700	4,200	3,650	7,590
5	20,600	37,800	61,400	7,830	4,870	2,810	2,970	47,700	15,800	3,770	3,770	9,670
6	17,800	37,000	59,700	7,980	4,490	2,610	3,910	55,200	17,000	3,830	3,770	10,600
7	14,600	29,100	50,600	8,320	3,960	2,450	7,700	51,900	23,600	4,400	3,440	10,100
8	13,200	24,300	41,900	7,990	3,370	2,310	9,320	44,100	36,000	3,820	2,960	8,480
9	15,900	19,900	34,800	6,700	3,420	2,210	7,650	40,300	41,300	3,300	2,460	6,020
10	18,500	15,300	30,500	6,070	3,470	2,140	6,000	37,100	41,600	2,920	2,040	4,880
11	17,400	12,100	26,600	12,300	3,100	2,420	4,730	30,200	44,500	2,640	2,100	5,320
12	15,400	10,100	22,900	20,400	3,190	3,040	4,040	22,200	46,100	2,420	2,570	13,000
13	16,300	8,830	20,700	17,800	3,940	3,550	4,040	17,600	46,800	2,250	2,890	25,600
14	29,400	8,180	19,400	14,100	3,750	6,610	4,230	15,900	47,400	2,700	3,210	30,100
15	40,200	7,750	18,400	12,200	3,100	17,700	3,970	14,900	46,400	3,400	5,300	28,800
16	45,300	7,190	17,500	10,500	2,870	22,100	4,240	14,400	44,100	4,000	7,580	24,000
17	44,100	6,570	16,800	8,340	3,000	18,400	4,710	15,900	41,800	4,400	8,700	23,000
18	38,900	6,120	16,100	6,370	2,860	12,200	4,580	17,200	36,900	4,390	8,440	26,600
19	34,000	5,930	15,800	6,740	2,640	9,510	4,130	17,100	29,300	3,670	6,870	29,700
20	30,100	5,990	17,500	8,810	2,980	9,310	4,060	15,100	25,900	2,970	6,180	32,000
21	26,200	6,070	19,400	11,600	3,490	9,230	4,290	13,600	27,200	2,850	6,040	27,700
22	22,200	5,710	18,600	11,200	3,490	9,010	4,760	12,600	27,600	3,670	6,130	21,400
23	18,500	9,100	18,200	10,800	3,400	8,880	5,880	11,300	22,000	3,940	5,390	23,800
24	16,200	21,900	20,800	9,380	3,760	9,100	9,870	8,510	16,500	3,840	4,890	26,000
25	14,900	24,200	27,400	7,280	7,220	10,000	19,000	6,070	14,500	3,930	5,110	23,800
26	14,100	29,200	30,000	7,060	11,500	10,500	21,500	5,700	11,400	3,670	4,840	27,700
27	13,500	40,900	30,700	7,870	11,200	9,550	15,700	5,280	7,510	3,620	4,460	39,400
28	13,200	53,700	26,200	9,260	9,290	8,350	11,300	5,520	5,540	4,450	4,320	41,400
29	13,000	64,500	20,300	10,500	-----	7,690	8,340	7,680	4,910	4,570	4,530	41,500
30	13,500	66,500	16,300	10,400	-----	7,200	6,340	9,490	4,950	3,830	4,180	40,800
31	20,200	-----	13,900	9,770	-----	6,940	-----	11,100	-----	3,440	3,460	-----
TOTAL	708,600	693,040	955,700	302,910	140,080	235,040	211,530	619,440	768,410	115,010	138,270	626,410
MEAN	22,860	23,100	30,830	9,771	5,003	7,582	7,051	19,980	25,610	3,710	4,460	20,880
MAX	45,300	66,500	62,500	20,400	11,500	22,100	21,500	55,200	47,400	4,790	8,700	41,500
MIN	13,000	5,710	13,900	6,070	2,640	2,140	2,970	5,280	4,910	2,250	2,040	4,170
AC=FT	1,406M	1,375M	1,896M	600,800	277,800	466,200	419,600	1,229M	1,524M	228,100	274,300	1,242M
CAL YR 1973	TOTAL	8,575,600	MEAN	23,490	MAX	96,200	MIN	2,970	AC=FT	17,010,000		
WTR YR 1974	TOTAL	5,514,400	MEAN	15,110	MAX	66,500	MIN	2,040	AC=FT	10,940,000		

07339500 Rolling Fork near DeQueen, Ark.

LOCATION.--Lat 34°02'51", long 94°24'47", in SW¼SW¼ sec.21, T.8 S., R.32 W., Sevier County, near center of span on downstream side of bridge on U.S. Highway 70, 4.0 mi (6.4 km) west of DeQueen, 6.0 mi (9.7 km) upstream from Rock Creek, and at mile 17.0 (27.4 km).

DRAINAGE AREA.--181 mi² (469 km²).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 318.24 ft (97.000 m) above mean sea level. Prior to Dec. 16, 1948, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--26 years, 295 ft³/s (8.35 m³/s), 22.13 in/yr (562 mm/yr), 213,700 acre-ft/yr (263 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,820 ft³/s (137 m³/s) June 9, gage height, 14.50 ft (4.420 m); minimum, 2.7 ft³/s (0.076 m³/s) Aug. 8, gage height, 1.81 ft (0.552 m).

Period of record: Maximum discharge, 71,000 ft³/s (2,011 m³/s) Dec. 10, 1971, gage height, 24.23 ft (7.385 m), from floodmark; no flow at times in 1948, 1954, 1956.

Flood of Aug. 27, 1947, reached a stage of 25.6 ft (7.80 m), from floodmarks, discharge, 110,000 ft³/s (3,115 m³/s), from contracted-opening measurement of peak flow.

REMARKS.--Records good. Some regulation due to construction at DeQueen Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	350	2,960	386	164	320	151	55	219	64	21	4.3	126
2	219	1,130	241	143	267	138	50	1,350	57	19	4.2	264
3	159	562	329	139	226	128	48	1,310	47	17	3.8	733
4	123	754	2,500	134	184	118	43	3,130	39	16	3.5	243
5	96	678	2,030	125	163	111	45	3,370	41	14	3.5	135
6	85	431	897	121	150	104	44	1,580	355	13	3.2	92
7	84	319	553	119	134	99	39	581	1,660	13	2.9	65
8	92	264	375	115	127	99	36	339	3,740	12	3.1	47
9	76	223	287	114	117	90	33	230	4,760	11	4.8	60
10	62	184	230	1,250	109	86	32	173	4,310	11	7.9	262
11	76	156	187	3,610	103	1,540	39	141	3,840	11	11	2,990
12	188	138	163	2,920	97	2,800	285	120	2,700	12	20	3,180
13	3,040	127	149	1,090	93	1,020	331	101	471	12	28	2,390
14	3,260	119	133	632	89	435	215	85	239	11	23	1,310
15	1,390	111	117	461	89	290	158	91	172	11	16	600
16	916	99	104	343	93	216	124	87	1,320	10	13	576
17	678	88	93	283	90	166	104	71	790	9.2	12	1,270
18	438	110	84	248	89	139	88	59	710	8.3	18	930
19	297	107	152	650	113	125	76	49	416	8.2	15	532
20	219	247	781	1,200	148	116	66	41	253	12	12	319
21	170	399	568	1,000	186	138	69	36	174	12	9.5	232
22	139	385	390	780	524	125	3,500	33	128	11	8.0	191
23	116	323	331	560	487	109	4,030	29	99	9.9	6.5	143
24	100	836	1,050	410	354	99	3,120	27	76	10	5.5	114
25	87	2,030	1,490	300	259	90	832	27	58	10	5.0	2,130
26	75	2,730	829	330	204	80	350	346	46	9.0	5.6	3,300
27	92	3,220	537	700	181	76	235	355	37	7.6	6.0	1,680
28	110	1,690	361	1,200	164	72	175	170	31	6.2	6.0	576
29	100	848	285	732	-----	70	137	116	27	5.3	6.6	332
30	101	565	233	557	-----	65	138	88	24	5.0	13	217
31	2,960	-----	195	413	-----	60	-----	74	-----	4.6	138	-----
TOTAL	15,903	21,838	16,910	20,843	5,172	8,955	14,497	14,428	26,684	342.3	418.9	25,039
MEAN	513	728	545	672	185	289	483	465	889	11.0	13.5	835
MAX	3,260	3,220	2,500	3,610	524	2,800	4,030	3,370	4,760	21	138	3,300
MIN	62	88	84	114	89	60	32	27	24	4.6	2.9	47
CFSM	2.83	4.02	3.01	3.71	1.02	1.60	2.67	2.57	4.91	.06	.07	4.61
IN.	3.27	4.44	3.44	4.28	1.06	1.84	2.98	2.97	5.48	.07	.09	5.15
AC-FT	31,540	43,320	33,540	41,340	10,260	17,760	28,750	28,620	52,930	679	831	49,660

CAL YR 1973 TOTAL 221,282.0 MEAN 606 MAX 10,300 MIN 1.7 CFSM 3.35 IN 45.48 AC-FT 438,900
 WITH YR 1974 TOTAL 171,030.2 MEAN 469 MAX 4,760 MIN 2.9 CFSM 2.59 IN 35.15 AC-FT 339,200

07340000 Little River near Horatio, Ark.

LOCATION.--Lat 33°55'10", long 94°23'15", in NE¼ sec.10, T.10 S., R.32 W., Sevier County, near left bank on downstream side of bridge on State Highway 41, 0.9 mi (1.4 km) downstream from Rolling Fork, 2.0 mi (3.2 km) southwest of Horatio, 28.5 mi (45.9 km) upstream from Cossatot River, and at mile 72.0 (115.8 km).

DRAINAGE AREA.--2,674 mi² (6,926 km²).

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 272.89 ft (83.177 m) above mean sea level. Prior to Feb. 5, 1935, nonrecording gage, and Feb. 5, 1935, to Sept. 13, 1961, water-stage recorder, at site 50 ft (15 m) upstream at present datum.

AVERAGE DISCHARGE.--44 years, 3,805 ft³/s (108 m³/s), 2,757,000 acre-ft/yr (3,400 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 30,200 ft³/s (855 m³/s) May 5, gage height, 27.35 ft (8.336 m); minimum, 224 ft³/s (6.34 m³/s) Aug. 8, gage height, 4.46 ft (1.359 m).

Period of record: Maximum discharge, 120,000 ft³/s (3,400 m³/s) Mar. 30, 1945, gage height, 37.70 ft (11.491 m), from rating curve extended above 93,000 ft³/s (2,630 m³/s); minimum, 1.0 ft³/s (0.028 m³/s) Aug. 18 to Sept. 1, 1934.

Flood in August 1915, reached a stage of 38.0 ft (11.58 m), discharge, 124,000 ft³/s (3,510 m³/s).

REMARKS.--Records good. Some regulation since Oct. 3, 1968, by Broken Bow Lake (Oklahoma), 31.4 mi (50.5 km) upstream, capacity, 1,368,000 acre-ft (1,690 hm³), and since June 1, 1969, by Pine Creek Lake (Oklahoma), 73.3 mi (117.9 km) upstream, capacity, 465,800 acre-ft (574 hm³). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 857: 1932, 1935-36. WSP 1211: 1931, drainage area. WSP 1561: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,800	16,100	12,700	8,870	4,790	1,520	840	9,660	1,170	478	1,540	1,210
2	2,490	11,300	12,900	8,010	3,710	1,740	1,600	12,700	901	1,110	1,460	1,730
3	3,780	7,060	12,700	7,330	2,120	1,360	1,640	16,100	1,040	989	809	3,380
4	5,390	9,720	18,400	5,740	1,850	1,170	1,430	23,400	1,110	984	379	3,950
5	4,130	15,100	19,300	3,520	2,650	1,100	1,190	28,200	1,540	538	280	3,280
6	1,700	10,400	13,100	1,520	2,090	929	2,370	18,000	1,620	470	261	2,830
7	912	5,460	11,900	1,340	2,670	931	1,480	12,400	7,340	393	248	2,540
8	656	3,340	12,400	2,600	4,810	925	1,310	8,130	16,600	321	232	1,580
9	1,200	2,660	12,300	1,620	4,760	1,470	1,280	5,060	20,700	1,160	305	1,300
10	1,140	2,370	12,500	6,850	1,440	1,670	1,040	4,470	20,800	1,180	914	2,860
11	999	1,660	12,300	19,700	976	1,700	834	4,310	18,100	1,680	525	14,700
12	882	1,260	10,500	19,900	1,200	9,880	1,310	1,740	15,000	2,360	318	20,800
13	4,640	1,140	7,640	12,400	1,290	14,300	2,840	1,070	11,900	2,240	833	22,700
14	10,100	1,160	6,150	4,630	889	12,900	3,630	2,740	10,600	864	2,890	20,500
15	8,210	1,320	5,440	3,500	1,110	11,400	3,330	1,370	10,700	344	2,590	16,100
16	8,430	2,260	2,490	2,930	2,950	10,400	3,420	1,610	11,500	1,100	2,820	11,000
17	8,650	1,260	1,350	2,590	1,180	10,500	3,060	3,230	13,600	1,820	2,550	14,800
18	5,900	990	2,430	2,370	845	10,500	2,140	2,650	14,300	2,490	1,790	14,000
19	4,290	1,020	3,320	4,370	1,040	11,500	3,040	1,050	12,900	2,480	1,360	12,400
20	3,710	1,330	7,660	8,480	1,600	11,700	1,550	656	11,800	2,950	1,520	10,000
21	2,410	2,950	5,870	7,080	1,990	11,900	882	2,420	10,900	1,250	2,160	8,000
22	1,820	3,600	3,660	5,370	3,510	12,100	7,890	1,560	7,000	1,070	2,020	6,000
23	2,350	3,190	2,490	4,560	4,100	9,780	18,900	978	1,910	2,530	1,310	4,400
24	2,120	4,310	7,970	4,720	2,650	5,820	19,500	694	1,110	2,610	965	3,300
25	2,410	8,100	12,300	4,970	2,180	4,730	15,700	582	2,180	2,070	728	20,600
26	1,310	13,400	10,500	4,650	3,280	4,630	11,900	1,130	2,300	2,090	433	25,100
27	800	18,600	8,870	4,290	2,640	3,540	10,300	1,750	2,510	1,980	654	22,300
28	906	16,300	9,570	6,160	1,760	3,700	11,600	1,610	2,590	735	440	17,200
29	865	12,800	10,200	6,470	-----	4,100	12,600	1,160	2,130	332	295	13,000
30	767	12,100	10,300	5,000	-----	3,170	11,200	1,890	896	1,100	329	11,300
31	12,000	-----	9,000	5,740	-----	1,220	-----	1,940	-----	1,220	668	-----
TOTAL	107,767	192,260	288,210	187,280	66,080	182,285	159,806	174,260	236,747	42,938	33,626	312,860
MEAN	3,476	6,409	9,297	6,041	2,360	5,880	5,327	5,621	7,892	1,385	1,085	10,430
MAX	12,000	18,600	19,300	19,900	4,810	14,300	19,500	28,200	20,800	2,950	2,890	25,100
MIN	656	990	1,350	1,340	845	925	834	582	896	321	232	1,210
AC-FT	213,800	381,300	571,700	371,500	131,100	361,600	317,000	345,600	469,600	85,170	66,700	620,600
CAL YR 1973	TOTAL 2,790,051		MEAN 7,644		MAX 34,400		MIN 218		AC-FT 5,534,000			
WTR YR 1974	TOTAL 1,984,119		MEAN 5,436		MAX 28,200		MIN 232		AC-FT 3,936,000			

RED RIVER BASIN

07340300 Cossatot River near Vandervoort, Ark.
(Hydrologic bench-mark station)

LOCATION.--Lat 34°22'46", long 94°14'08", in SE¼NE¼ sec.30, T.4 S., R.30 W., Polk County, near left bank on downstream side of bridge on State Highway 246, 0.3 mi (0.5 km) downstream from Brushy Creek, 3.2 mi (4.1 km) upstream from Flat Creek, and 7.5 mi (12.1 km) east of Vandervoort.

DRAINAGE AREA.--89.4 mi² (231.5 km²).

PERIOD OF RECORD.--June 1967 to current year.

AVERAGE DISCHARGE.--7 years, 212 ft³/s (6.00 m³/s), 32.20 in/yr (818 mm/yr), 153,600 acre-ft/yr (189 hm³/yr).

GAGE.--Water-stage recorder. Datum of gage is 771.88 ft (235.269 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 26,700 ft³/s (756 m³/s) Apr. 21, gage height, 18.08 ft (5.511 m); minimum, 14.0 ft³/s (0.396 m³/s) July 30, gage height, 1.88 ft (0.573 m).
Period of record: Maximum discharge, 31,500 ft³/s (892 m³/s) Dec. 9, 1971, gage height, 19.35 ft (5.898 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on the basis of step-backwater computations; minimum, 7.2 ft³/s (0.20 m³/s) Aug. 28, 29, 30, 31, 1972, gage height, 1.67 ft (0.509 m).
Flood of May 6, 1961, reached a stage of about 23.0 ft (7.01 m), from information by local resident, discharge, about 48,000 ft³/s (1,400 m³/s).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	371	177	100	180	100	69	123	84	25	17	149
2	108	222	146	91	150	92	66	1,520	65	25	16	1,270
3	84	157	691	89	125	86	87	434	54	24	23	493
4	66	129	2,270	81	100	79	84	802	53	22	20	181
5	52	111	680	79	90	74	74	484	333	22	16	109
6	52	96	369	80	88	76	70	285	939	23	15	76
7	58	92	247	77	80	70	67	194	3,680	22	15	57
8	44	90	193	73	74	64	67	145	3,820	23	18	46
9	38	86	159	73	69	61	63	117	1,130	22	27	61
10	35	81	133	2,050	65	61	61	99	512	21	103	273
11	35	77	116	1,400	62	5,380	160	93	278	19	87	2,150
12	44	70	109	549	59	860	352	80	194	18	49	575
13	62	61	101	336	59	421	203	65	146	18	36	741
14	64	55	92	242	58	271	151	61	113	20	29	468
15	64	50	84	186	58	201	121	73	99	38	44	259
16	64	52	74	150	58	156	107	63	191	47	75	216
17	64	47	68	131	53	129	95	56	117	29	36	375
18	88	134	69	120	61	118	87	49	94	24	27	286
19	119	156	324	159	144	110	81	44	76	22	24	205
20	103	656	400	581	121	103	76	40	63	20	21	156
21	92	629	251	425	508	113	4,350	39	54	19	19	131
22	80	334	194	289	714	98	4,690	39	49	18	18	109
23	70	584	191	213	373	95	819	36	44	17	17	88
24	60	1,070	1,140	169	241	89	389	34	40	18	17	77
25	56	1,190	503	139	171	83	239	46	37	19	15	1,250
26	54	1,990	318	192	139	81	177	693	34	18	15	657
27	60	874	225	270	122	79	144	204	32	17	16	342
28	64	484	176	358	111	77	136	124	30	15	19	218
29	57	314	152	302	-----	76	130	93	28	14	190	153
30	80	228	130	238	-----	70	142	74	26	15	500	114
31	754	-----	116	195	-----	69	-----	77	-----	18	271	-----
TOTAL	2,820	10,490	9,898	9,437	4,133	9,442	13,357	6,286	12,415	672	1,795	11,285
MEAN	91.0	350	319	304	144	305	445	203	414	21.7	57.9	376
MAX	754	1,990	2,270	2,050	714	5,380	4,690	1,520	3,820	47	500	2,150
MIN	35	47	68	73	53	61	61	34	26	14	15	46
CFSM	1.02	3.92	3.57	3.40	1.66	3.41	4.98	2.27	4.63	.24	.65	4.21
IN.	1.17	4.36	4.12	3.93	1.72	3.93	5.56	2.62	5.17	.28	.75	4.70
AC-FT	5,590	20,810	19,630	18,720	8,200	18,730	26,490	12,470	24,630	1,330	3,560	22,380
CAL YR 1973 TOTAL	120,254											
WTR YR 1974 TOTAL	92,030											
MEAN	329											
MAX	3,440											
MIN	15											
CFSM	3.68											
IN	50.04											
AC-FT	238,500											
WTR YR 1974 AC-FT	182,500											

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
12- 3	2330	9.66	5,360	4-21	2200	18.08	26,700
1-10	1800	9.86	5,680	6- 8	1015	12.28	10,100
3-11	0430	15.61	18,700				

07340500 Cossatot River near DeQueen, Ark.

LOCATION.--Lat 34°02'45", long 94°12'42", in NE¼NE¼ sec.29, T.8 S., R.30 W., Sevier County, near right bank on downstream side of bridge on U.S. Highway 71, just downstream from Hale Creek, 7.0 mi (11.3 km) east of DeQueen, and at mile 33.5 (53.9 km).

DRAINAGE AREA.--361 mi² (935 km²).

PERIOD OF RECORD.--January 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 335.48 ft (102.254 m) above mean sea level. Prior to Nov. 9, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--36 years, 622 ft³/s (17.6 m³/s), 23.40 in/yr (594 mm/yr), 450,600 acre-ft/yr (556 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 26,500 ft³/s (750 m³/s) Oct. 13, gage height, 18.05 ft (5.499 m); minimum, 16 ft³/s (0.45 m³/s) Aug. 6.

Period of record: Maximum discharge, 122,000 ft³/s (3,455 m³/s) May 13, 1968, gage height, 22.60 ft (6.891 m), from rating curve extended above 65,000 ft³/s (1,841 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 1.1 ft³/s (0.031 m³/s) Sept. 2, 3, 1972, gage height, 2.90 ft (0.884 m).

REMARKS.--Records good. Records do not include about 1.9 ft³/s (0.054 m³/s) diverted by DeQueen for municipal use. Some regulation due to construction at Gillham Lake. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	945	3,300	1,130	428	934	382	155	899	258	75	23	735
2	582	2,600	899	337	768	321	147	1,120	232	66	22	855
3	348	1,460	851	298	635	279	148	1,950	178	60	24	2,070
4	238	1,390	3,620	279	499	248	142	2,270	149	57	23	1,310
5	174	1,050	4,210	254	399	224	153	2,620	263	54	21	770
6	151	786	3,200	254	340	207	140	1,890	1,040	55	18	377
7	150	635	2,710	340	304	195	123	1,150	3,950	53	22	209
8	149	533	1,590	284	265	186	121	851	10,400	46	23	159
9	129	447	975	246	238	177	118	611	6,250	42	25	165
10	104	365	750	1,950	217	177	116	417	4,930	41	31	359
11	141	301	587	6,920	200	1,650	122	321	4,500	44	158	2,340
12	299	256	483	3,860	186	3,440	313	279	4,320	42	205	3,390
13	12,500	230	410	3,090	178	3,270	711	226	4,150	39	168	3,690
14	5,190	215	349	2,680	174	3,040	573	213	3,980	41	111	2,820
15	2,110	198	301	1,740	181	2,730	399	546	3,850	37	77	2,180
16	1,650	180	258	1,060	185	2,170	279	611	4,970	34	67	1,530
17	1,240	168	224	818	175	1,110	224	406	3,980	40	97	1,630
18	970	222	200	681	170	630	191	268	3,660	64	104	1,300
19	750	406	263	904	252	406	170	202	3,270	56	71	1,090
20	569	841	665	1,480	463	324	159	164	2,850	45	52	855
21	421	1,950	909	2,130	573	352	169	141	2,060	38	43	650
22	315	1,760	804	1,680	1,380	340	5,730	129	870	32	37	477
23	252	1,390	711	1,240	1,660	287	4,400	118	331	29	31	325
24	211	2,240	2,440	1,010	1,170	252	3,950	106	200	27	29	238
25	183	3,190	2,840	813	929	228	3,710	97	164	26	26	2,750
26	165	4,910	2,210	818	698	207	3,500	606	141	31	25	3,390
27	183	6,550	1,260	980	537	195	3,280	1,410	123	29	24	2,940
28	207	3,710	995	2,170	451	186	3,030	919	110	27	26	2,370
29	198	2,770	813	1,990	-----	181	2,630	606	99	25	33	1,330
30	211	1,660	665	1,440	-----	174	1,860	349	91	26	124	827
31	3,910	-----	533	1,140	-----	165	-----	273	-----	25	557	-----
TOTAL	34,645	45,713	37,855	43,314	14,161	23,733	36,763	21,768	71,369	1,306	2,297	43,131
MEAN	1,118	1,524	1,221	1,397	506	766	1,225	702	2,379	42.1	74.1	1,438
MAX	12,500	6,550	4,210	6,920	1,660	3,440	5,730	2,620	10,400	75	557	3,690
MIN	104	168	200	246	170	165	116	97	91	25	18	159
CFSM	3.10	4.22	3.38	3.87	1.40	2.12	3.39	1.94	6.59	.12	.21	3.98
IN.	3.57	4.71	3.90	4.46	1.46	2.45	3.79	2.24	7.35	.13	.24	4.44
AC-FT	68,720	90,670	75,090	85,910	28,090	47,070	72,920	43,180	141,600	2,590	4,560	85,550

CAL YR 1973 TOTAL 459,671 MEAN 1,259 MAX 21,100 MIN 14 CFSM 3.49 IN 47.37 AC-FT 911,800
WTR YR 1974 TOTAL 376,055 MEAN 1,030 MAX 12,500 MIN 18 CFSM 2.85 IN 38.75 AC-FT 745,900

PEAK DISCHARGE (BASE, 10,000 CFS).--OCT. 13 (1600) 26,500 CFS (18.04 FT); JUNE 8 (1530) 21,800 CFS (17.23 FT).

07341000 Saline River near Dierks, Ark.

LOCATION.--Lat 34°05'45", long 94°05'04", in NW¼SW¼ sec.3, T.8 S., R.29 W., Howard County, near left bank on downstream side of bridge on U.S. Highway 70, 3.5 mi (5.6 km) upstream from Holly Creek, 4.0 mi (6.4 km) southwest of Dierks, and at mile 50.7 (81.6 km).

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--May 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 353.09 ft (107.622 m) above mean sea level. May 13, 1938, to Aug. 9, 1940, nonrecording gage and Aug. 10, 1940, to Aug. 30, 1951, water-stage recorder, at site 100 ft (30 m) upstream at present datum.

AVERAGE DISCHARGE.--36 years, 194 ft³/s (5.49 m³/s), 21.25 in/yr (540 mm/yr), 140,600 acre-ft/yr (173 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,910 ft³/s (196 m³/s) June 8, gage height, 14.08 ft (4.292 m); minimum, 1.4 ft³/s (0.040 m³/s) Aug. 7, 8.

Period of record: Maximum discharge, 59,200 ft³/s (1,680 m³/s) May 13, 1968, gage height, 22.95 ft (6.995 m); no flow at times.

Flood of some time in 1920 reached a stage of 21.9 ft (6.68 m), from information by local resident, discharge, 42,000 ft³/s (1,189 m³/s).

REMARKS.--Records good. Some regulation due to construction at Dierks Lake.

REVISIONS (WATER YEARS).--WSP 1007: 1939-42. WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	1,830	297	126	269	111	50	127	188	21	2.7	197
2	60	1,660	241	107	231	100	45	156	108	18	2.6	567
3	46	1,190	449	101	191	91	40	129	76	16	2.3	485
4	38	539	1,890	98	153	81	40	541	61	14	2.0	190
5	31	527	1,830	90	133	73	45	454	289	13	1.8	115
6	30	355	1,680	89	123	68	40	267	651	12	1.7	73
7	30	290	1,370	93	112	63	35	189	1,510	14	1.5	50
8	31	259	502	81	97	57	30	143	2,780	13	1.5	37
9	28	220	260	83	86	54	25	112	2,470	11	1.7	62
10	24	180	210	914	78	57	30	94	2,360	19	2.4	161
11	41	154	178	1,720	72	613	50	100	2,300	16	25	1,150
12	253	137	160	1,620	66	767	130	96	2,260	12	31	917
13	1,850	121	143	1,370	64	348	150	69	2,200	9.0	18	1,140
14	1,900	110	120	664	62	244	115	73	2,140	7.9	14	586
15	1,770	99	104	330	65	193	80	536	2,120	22	11	302
16	1,580	85	89	263	64	158	60	269	2,130	12	8.5	292
17	949	75	78	229	58	128	45	192	1,980	8.5	7.9	491
18	301	345	74	203	59	111	40	142	1,880	6.4	8.5	323
19	228	443	125	341	178	101	30	106	1,750	5.3	5.5	240
20	180	555	239	588	141	94	25	81	1,460	5.3	4.1	181
21	145	805	162	512	193	137	30	65	546	4.5	3.6	143
22	116	474	147	387	445	106	200	57	112	3.6	2.7	112
23	93	588	153	309	326	86	1,800	51	85	3.3	2.7	80
24	78	962	1,030	250	249	77	1,650	40	64	3.3	2.3	64
25	66	1,440	854	205	190	67	1,460	35	52	3.3	2.0	1,230
26	58	1,660	452	269	159	62	881	438	42	4.7	1.9	1,500
27	78	1,640	316	352	138	60	185	291	35	3.4	1.9	1,130
28	141	1,500	245	1,080	124	57	135	185	30	2.7	3.3	409
29	84	1,020	209	973	-----	57	107	131	27	2.3	26	246
30	126	409	176	523	-----	55	108	99	23	2.6	72	181
31	1,920	-----	155	348	-----	55	-----	135	-----	2.7	76	-----
TOTAL	12,358	19,672	13,938	14,318	4,126	4,331	7,661	5,403	31,729	291.8	348.1	12,654
MEAN	399	656	450	462	147	140	255	174	1,058	9.41	11.2	422
MAX	1,920	1,830	1,890	1,720	445	767	1,800	541	2,780	22	76	1,500
MIN	24	75	74	81	58	54	25	35	23	2.3	1.5	37
CFSM	3.22	5.29	3.63	3.73	1.19	1.13	2.06	1.40	8.53	.08	.09	3.40
IN.	3.71	5.90	4.18	4.30	1.24	1.30	2.30	1.62	9.52	.09	1.0	3.80
AC-FT	24,510	39,020	27,650	28,400	8,180	8,590	15,200	10,720	62,930	579	690	25,100
CAL YR 1973	TOTAL 154,981.13	MEAN 425	MAX 2,440	MIN .69	CFSM 3.43	IN 46.49	AC-FT 307,400					
WTR YR 1974	TOTAL 126,829.90	MEAN 347	MAX 2,780	MIN 1.5	CFSM 2.80	IN 38.05	AC-FT 251,600					

07341200 Saline River near Lockesburg, Ark.

LOCATION.--Lat 33°57'43", long 94°03'40", in NW¼SE¼ sec.23, T.9 S., R.29 W., Sevier County, near right bank on downstream side of bridge on State Highway 24, 2.0 mi (3.2 km) downstream from Brushy Creek, 6.0 mi (9.7 km) east of Lockesburg, and at mile 30 (48 km).

DRAINAGE AREA.--260 mi² (673 km²).

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 300.00 ft (91.440 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--11 years, 382 ft³/s (10.8 m³/s), 19.95 in/yr (507 mm/yr), 276,800 acre-ft/yr (341 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 17,100 ft³/s (484 m³/s) June 8, gage height, 17.15 ft (5.227 m); minimum, 3.6 ft³/s (0.10 ft³/s) Aug. 27, gage height, 2.08 ft (0.634 m).
 Period of record: Maximum discharge, 64,700 ft³/s (1,830 m³/s) May 14, 1969, gage height, 20.86 ft (6.358 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.20 ft³/s (0.006 m³/s) Nov. 6, 1963, Oct. 29, 1969.
 Flood of May 6 or 7, 1961, reached a stage of about 25.7 ft (7.83 m), from floodmarks.

REMARKS.--Records good. Some regulation due to construction at Dierks Lake. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CU81C FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	OEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	5,200	635	232	544	190	104	221	2,730	43	11	300
2	107	2,680	498	195	459	174	95	237	513	37	9.6	600
3	76	1,810	534	184	383	159	88	265	212	34	9.4	1,000
4	57	1,940	4,320	189	291	146	86	619	157	30	10	500
5	46	3,840	4,180	180	245	132	92	1,360	367	28	7.2	160
6	40	1,200	2,550	178	226	122	75	598	1,430	26	6.0	110
7	55	662	1,960	193	208	116	66	355	2,440	27	5.0	75
8	57	544	1,200	175	181	108	61	243	8,840	30	4.6	55
9	48	468	534	173	161	101	57	188	10,500	32	6.4	150
10	41	355	415	1,190	147	99	54	152	5,320	27	10	450
11	42	279	335	4,790	138	739	62	138	3,540	26	16	1,400
12	330	238	294	3,210	131	1,800	284	157	2,980	27	19	1,900
13	3,080	215	266	2,060	126	800	265	135	2,900	24	36	2,100
14	4,850	197	227	1,400	122	497	172	104	2,630	21	29	1,500
15	2,830	184	197	754	120	376	131	580	2,450	20	22	800
16	2,590	161	173	569	122	301	104	548	3,250	26	19	450
17	2,170	140	153	479	117	240	82	302	3,180	26	15	650
18	785	504	144	427	113	206	69	214	2,650	20	12	750
19	437	1,210	323	984	250	192	60	159	2,250	16	11	520
20	320	767	951	1,960	265	182	53	125	1,850	14	12	270
21	246	1,480	427	1,300	299	298	57	99	1,210	12	8.5	190
22	199	936	312	835	1,150	295	3,610	89	262	11	6.9	140
23	164	1,120	285	646	670	201	5,380	86	159	10	5.8	110
24	139	3,630	1,950	508	466	176	2,630	65	132	9.0	5.0	100
25	121	3,790	2,070	413	327	152	1,810	53	113	8.8	4.3	1,050
26	106	3,950	982	461	256	141	1,380	172	96	20	3.9	2,500
27	107	4,570	644	972	225	136	529	583	80	20	3.6	1,800
28	233	3,730	473	2,300	206	134	239	259	67	15	10	1,100
29	181	2,160	399	2,450	-----	133	194	171	57	11	40	650
30	138	1,030	332	1,140	-----	130	172	128	49	9.4	95	400
31	3,990	-----	281	717	-----	116	-----	531	-----	11	150	-----
TOTAL	23,733	48,990	28,044	31,264	7,948	8,592	18,061	8,936	62,414	671.2	603.2	21,780
MEAN	766	1,633	905	1,009	284	277	602	288	2,080	21.7	19.5	726
MAX	4,850	5,200	4,320	4,790	1,150	1,800	5,380	1,360	10,500	43	150	2,500
MIN	40	140	144	173	113	99	53	53	49	8.8	3.6	55
CF5M	2.95	6.28	3.48	3.88	1.09	1.07	2.32	1.11	8.00	.08	.08	2.79
1N.	3.40	7.01	4.01	4.47	1.14	1.23	2.58	1.28	8.93	.10	.09	3.12
AC-FT	47,070	97,170	55,630	62,010	15,760	17,040	35,820	17,720	123,800	1,330	1,200	43,200
CAL YR 1973	TOTAL 327,043.0	MEAN 896	MAX 7,260	MIN 4.4	CF5M 3.45	1N 46.79	AC-FT 648,700					
WTR YR 1974	TOTAL 261,036.4	MEAN 715	MAX 10,500	MIN 3.6	CF5M 2.75	1N 37.35	AC-FT 517,800					

07341300 Millwood Lake near Ashdown, Ark.

LOCATION.--Lat 33°41'20", long 93°58'18", in NW¼ sec.26, T.12 S., R.28 W., Little River County, at Millwood Dam on Little River, 9.2 mi (14.8 km) east of Ashdown, 9.6 mi (15.4 km) upstream from Hudson Creek, and at mile 16.0 (25.7 km).

DRAINAGE AREA.--4,144 mi² (10,730 km²).

PERIOD OF RECORD.--August 1966 to current year. Prior to October 1969, published as Millwood Reservoir near Ashdown.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 372,200 acre-ft (459 hm³) Dec. 1, elevation, 264.08 ft (80.492 m); minimum, 130,900 acre-ft (161 hm³) Sept. 9, elevation, 256.37 ft (78.142 m).

Period of record: Maximum contents, 1,457,000 acre-ft (1,800 hm³) May 22, 1968, elevation, 282.59 ft (86.133 m); minimum since initial filling to conservation pool, 96,000 acre-ft (118 hm³) Sept. 26, 1971, elevation, 254.73 ft (77.642 m).

REMARKS.--Lake is formed by earthfill dam. Outlet works consists of two 5-ft (1.5 m) by 6-ft (1.8 m) rectangular sluices. Flows over the spillway are controlled by fourteen 40-ft (12.2 m) by 32-ft (9.8 m) taintor gates. Regulated storage began Aug. 16, 1966. Capacity between elevations 257.0 ft (78.33 m) and 287.0 ft (87.48 m) is 1,709,000 acre-ft (2,110 hm³) and is reserved for flood-control storage. Lake is used for flood-control, future water-supply, water-quality control, and recreational purposes. Figures given herein represent total contents. Data regarding dam and lake are shown in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of flood-control pool.....	287.0 (87.48 m)	1,854,900 (2,290 hm ³)
Top of conservation pool.....	257.0 (78.33 m)	145,900 (180 hm ³)
Bottom of lowest outlet.....	223.0 (67.97 m)	393 (0.485 hm ³)

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

256 (78.0 m)	122.5 (151 hm ³)	262 (79.9 m)	295.0 (364 hm ³)
259 (78.9 m)	199.2 (246 hm ³)	265 (80.8 m)	409.2 (505 hm ³)

CONTENTS, IN ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232,100	226,000	361,300	227,500	205,600	201,500	206,700	239,700	215,000	205,300	209,100	218,600
2	227,200	250,900	341,800	217,100	212,900	202,900	204,400	231,200	215,900	203,200	209,400	223,800
3	223,200	261,000	336,200	207,000	213,200	204,400	210,000	228,400	213,500	204,100	210,600	212,900
4	221,700	273,000	340,300	205,800	210,600	205,800	206,400	242,500	212,300	205,000	209,100	193,200
5	222,000	287,000	343,300	211,700	210,000	206,100	202,900	268,300	211,400	203,200	207,300	177,400
6	223,500	298,800	351,700	213,500	210,000	206,400	203,500	299,500	211,200	203,200	206,700	164,000
7	222,000	289,400	344,800	210,800	208,500	205,600	206,400	317,000	225,600	202,900	205,300	152,800
8	218,300	266,600	332,800	210,800	207,000	205,600	207,300	318,500	230,000	202,600	204,400	143,900
9	214,400	248,600	318,100	211,200	210,800	207,300	206,700	303,000	275,300	202,600	203,800	136,700
10	212,300	241,300	300,900	224,400	210,000	208,800	203,800	281,800	318,500	204,100	207,300	132,800
11	212,600	234,000	277,000	243,800	206,400	205,000	210,000	261,000	336,900	205,800	207,900	136,700
12	210,800	223,800	251,200	272,000	205,600	196,300	210,000	238,400	332,100	209,700	209,400	164,000
13	222,600	213,800	236,800	305,500	207,300	201,200	214,100	220,200	317,000	213,500	209,700	195,700
14	229,000	208,500	232,800	306,600	208,500	212,300	222,900	211,400	292,200	216,500	211,400	220,200
15	235,000	210,000	228,700	279,400	209,400	224,700	224,400	206,400	277,000	217,100	217,700	234,300
16	235,300	210,000	218,300	248,000	211,200	229,000	225,000	205,800	269,600	216,500	222,000	238,400
17	231,200	211,400	209,400	228,700	212,600	230,600	222,600	210,000	262,600	218,000	223,500	234,300
18	221,700	212,000	204,100	222,900	213,200	230,000	219,200	214,400	259,300	221,400	222,300	233,700
19	220,400	210,800	214,400	228,400	211,700	225,600	215,900	216,200	254,100	223,500	218,600	230,300
20	225,000	214,100	218,000	244,100	208,800	224,400	210,300	214,700	244,100	222,600	215,000	222,900
21	226,900	218,000	226,600	253,500	209,400	218,300	208,500	214,100	241,600	219,500	212,300	215,600
22	225,300	226,600	229,600	249,600	206,100	219,200	208,500	216,500	248,600	215,900	210,600	207,300
23	222,900	254,400	230,900	238,400	207,300	230,000	214,400	215,300	240,900	213,200	208,500	199,900
24	220,800	281,500	236,800	224,400	207,300	229,000	232,400	213,800	222,900	213,200	205,300	194,600
25	218,900	304,500	256,400	215,300	197,200	224,400	251,200	213,200	212,900	212,000	201,200	207,000
26	215,900	324,300	271,000	215,900	194,600	217,700	261,600	214,100	211,400	212,000	200,300	229,000
27	213,800	331,000	268,600	221,100	199,400	210,000	262,300	213,500	210,000	213,500	200,600	241,600
28	207,900	334,000	258,700	222,600	201,200	206,700	255,100	214,700	209,400	214,700	201,500	252,800
29	204,700	358,200	252,500	223,200	-----	209,400	250,500	215,900	209,100	213,800	207,000	251,200
30	207,000	370,700	245,400	215,300	-----	210,600	247,600	213,500	208,800	213,500	211,400	239,400
31	215,600	-----	238,400	206,100	-----	207,300	-----	214,400	-----	212,000	216,500	-----
MAX	235,300	370,700	361,300	306,600	213,200	230,600	262,300	318,500	336,900	223,500	223,500	252,800
MIN	204,700	208,500	204,100	205,800	194,600	196,300	202,900	205,800	208,800	202,600	200,300	132,800
(†)	259.56	264.04	260.52	259.24	259.07	259.28	260.59	259.52	259.33	259.44	259.59	260.33
(‡)	-13,100	+155,100	-132,300	-32,300	-4,900	+6,100	+40,300	-33,200	-5,600	+3,200	+4,500	+22,900

CAL YR 1973..... † +12,400

WTR YR 1974..... † +10,700

† ELEVATION, IN FEET, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07341301 Little River at Millwood Dam, near Ashdown, Ark.

LOCATION.--Lat 33°41'20", long 93°58'18", in NW¼ sec.26, T.12 S., R.28 W., Little River County, at Millwood Dam, 9.2 mi (14.8 km) east of Ashdown, 9.6 mi (15.4 km) upstream from Hudson Creek, and at mile 16.0 (25.7 km).

DRAINAGE AREA.--4,144 mi² (10,730 km²).

PERIOD OF RECORD.--October 1966 to current year. Records for October 1965 to September 1966, published in WRD Ark., 1968, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--8 years, 6,759 ft³/s (191 m³/s), 4,897,000 acre-ft/yr (6,040 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 39,600 ft³/s (1,120 m³/s) June 12; no flow for part of Feb. 27.

.. Period of record: Maximum daily discharge, 67,300 ft³/s (1,906 m³/s) May 13, 1973, no flow at times in 1968, 1972, 1973, 1974.

REMARKS.--Discharge computations based on gate openings, and head and tailwater elevations at Millwood Dam. Flow completely regulated by Millwood Lake since Aug. 16, 1966 (see station 07341300).

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WRD Ark. 1969: 1967-68.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,540	16,200	26,300	17,800	10,700	3,080	2,630	20,200	4,080	2,680	2,600	2,360
2	5,850	19,800	30,200	17,300	5,880	2,310	1,840	19,700	4,080	1,830	1,790	2,360
3	5,650	21,100	29,400	16,200	5,950	2,340	1,870	17,700	4,080	1,200	1,160	9,900
4	5,570	21,400	29,400	9,610	5,930	2,360	3,220	16,800	4,080	1,200	1,160	16,500
5	4,520	24,100	29,600	4,410	5,880	2,370	2,980	18,100	4,040	1,200	1,160	13,300
6	2,780	29,200	30,000	4,460	5,860	2,370	1,890	19,300	3,920	1,200	860	10,900
7	2,770	31,100	29,900	4,460	5,760	2,360	1,890	20,500	8,090	1,200	612	8,960
8	2,720	28,600	29,300	4,460	5,670	2,040	1,890	20,900	18,800	736	370	7,450
9	2,670	15,900	28,400	4,460	5,660	1,520	1,890	20,500	24,600	432	318	6,450
10	2,560	7,740	27,300	6,550	5,660	1,520	1,890	19,900	29,800	432	318	5,870
11	2,490	7,580	29,300	12,800	4,630	6,040	1,890	19,000	34,800	432	318	5,790
12	2,520	7,440	28,300	16,900	2,570	12,900	1,900	17,800	39,600	432	318	8,590
13	4,030	7,210	20,600	18,600	1,900	12,800	1,950	11,300	37,700	432	318	12,800
14	10,300	4,590	12,400	25,800	1,940	13,100	1,990	8,140	35,900	437	318	17,600
15	16,600	2,160	10,600	29,800	2,170	12,900	3,190	5,800	31,300	453	318	21,000
16	22,300	2,160	10,400	27,200	2,420	14,200	4,810	3,290	27,700	454	662	22,600
17	22,100	2,170	7,320	18,900	2,460	14,400	4,810	2,430	26,300	454	2,540	23,100
18	20,600	2,190	4,980	10,600	2,480	15,900	4,800	2,430	26,200	454	3,410	21,900
19	11,500	2,950	4,930	6,750	3,720	16,800	4,780	2,430	26,600	2,180	3,410	21,600
20	4,470	3,540	5,860	6,840	4,960	16,500	4,720	2,430	24,900	3,410	3,480	20,600
21	4,790	3,610	6,680	12,600	6,340	16,300	4,650	2,420	19,200	3,250	3,480	19,300
22	4,870	3,830	6,890	17,100	7,880	14,100	7,860	2,420	13,900	3,350	3,440	18,000
23	4,690	3,990	6,920	17,600	7,870	10,300	14,700	2,420	14,500	3,290	3,100	16,700
24	4,600	4,420	6,950	17,000	7,870	10,500	19,900	2,420	13,900	3,240	2,770	15,900
25	4,580	4,650	7,040	13,800	9,960	10,500	20,100	2,420	8,330	3,240	2,770	16,400
26	4,530	13,000	12,300	8,980	7,560	10,300	20,800	3,220	4,110	2,390	1,430	19,100
27	4,410	29,100	18,300	9,070	2,890	10,200	21,400	3,750	4,090	1,110	550	22,400
28	4,320	34,300	19,000	13,300	3,760	7,320	21,300	3,820	3,590	1,170	550	24,900
29	3,200	21,100	19,000	16,500	-----	3,030	20,900	4,060	2,690	1,170	550	25,700
30	1,280	18,200	18,500	19,900	-----	3,060	20,400	4,080	2,690	2,000	1,550	24,500
31	6,450	-----	18,200	18,400	-----	3,050	-----	4,080	-----	2,600	2,360	-----
TOTAL	204,260	393,330	564,270	428,150	146,330	256,470	228,840	303,760	503,570	48,058	47,990	462,530
MEAN	6,589	13,110	18,200	13,810	5,226	8,273	7,628	9,799	16,790	1,550	1,548	15,420
MAX	22,300	34,300	30,200	29,800	10,700	16,800	21,400	20,900	39,600	3,410	3,480	25,700
MIN	1,280	2,160	4,930	4,410	1,900	1,520	1,840	2,420	2,690	432	318	2,360
AC-FT	405,100	780,200	1,119M	849,200	290,200	508,700	453,900	602,500	998,800	95,320	95,190	917,400
CAL YR 1973	TOTAL 4,620,371.00			MEAN 12,660	MAX 67,300	MIN .0	AC-FT 9,165,000					
WTR YR 1974	TOTAL 3,587,558.00			MEAN 9,829	MAX 39,600	MIN 318	AC-FT 7,116,000					

07341500 Red River at Fulton, Ark.

LOCATION.--Lat 33°36'26", long 93°48'56", in NE¼SE¼ sec.20, T.13 S., R.26 W., Hempstead-Miller County line, near left bank on downstream side of bridge on U.S. Highway 67 at Fulton, 0.2 mi (0.3 km) downstream from Missouri Pacific Railroad Co. bridge, 2.5 mi (4.0 km) downstream from Little River, and at mile 463.0 (745.0 km).

DRAINAGE AREA.--52,380 mi² (135,660 km²), of which 5,936 mi² (15,374 km²) is probably noncontributing.

PERIOD OF RECORD.--October 1927 to current year. January 1932 to May 1934 monthly discharge only, published in WSP 1311. Prior to October 1949, published as "at Garland." Gage heights collected in the present vicinity since October 1885 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 224.94 ft (68.562 m) above mean sea level. Prior to Oct. 1, 1934, nonrecording gage, and Oct. 1, 1934, to Sept. 30, 1949, water-stage recorder, at Garland 39.0 mi (62.8 km) downstream at different datum. Oct. 1, 1949, to Dec. 31, 1966, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--47 years, 17,600 ft³/s (498 m³/s), 12,750,000 acre-ft/yr (15,700 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 96,000 ft³/s (2,720 m³/s) Dec. 6, gage height, 21.60 ft (6.584 m); minimum daily, 3,400 ft³/s (96.3 m³/s) Apr. 6.

Period of record: Maximum discharge, 338,000 ft³/s (9,570 m³/s) Feb. 24, 1938, gage height, 36.45 ft (11.110 m), present site and datum; maximum gage height, 37.4 ft (11.40 m) Apr. 2, 1945, present site and datum; minimum discharge, 390 ft³/s (11.0 m³/s) Oct. 26, 1956.

REMARKS.--Some regulation by Lake Texoma (Texas), 263 mi (423 km) upstream, capacity, 5,530,300 acre-ft (6.820 hm³), since Oct. 31, 1943, and by Millwood Lake since Aug. 16, 1966 (see station 07341300).

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36,000	35,000	86,000	29,000	24,000	11,000	7,200	23,000	13,000	9,000	6,600	7,400
2	38,000	44,000	89,000	27,000	16,000	8,600	5,400	23,000	12,000	8,400	6,000	8,400
3	31,000	54,000	92,000	24,000	13,000	6,900	5,100	27,000	12,000	7,500	5,000	11,000
4	27,000	56,000	94,000	20,000	12,000	6,000	4,300	48,000	14,000	7,300	5,400	20,000
5	24,000	61,000	95,000	13,000	11,000	5,500	3,800	63,000	16,000	6,900	6,100	21,000
6	20,000	67,000	93,000	13,000	9,800	5,400	3,400	73,000	18,000	6,500	6,300	20,000
7	16,000	59,000	83,000	13,000	9,400	4,900	4,300	73,000	25,000	7,200	6,100	18,000
8	14,000	50,000	70,000	13,000	8,600	4,500	5,500	68,000	49,000	7,000	5,600	16,000
9	14,000	40,000	59,000	12,000	8,200	4,000	5,200	63,000	68,000	6,200	5,200	14,000
10	17,000	25,000	52,000	11,000	7,700	3,600	4,500	59,000	74,000	5,500	4,500	12,000
11	18,000	19,000	46,000	17,000	6,800	4,600	4,000	52,000	78,000	4,900	4,000	11,000
12	17,000	16,000	43,000	29,000	6,200	12,000	3,600	43,000	84,000	4,300	4,500	16,000
13	18,000	14,000	39,000	30,000	6,200	13,000	3,500	33,000	86,000	3,900	5,400	35,000
14	32,000	12,000	29,000	28,000	6,300	15,000	3,600	25,000	87,000	4,000	5,700	46,000
15	54,000	9,700	23,000	31,000	6,000	24,000	3,900	21,000	85,000	4,300	6,700	50,000
16	70,000	9,200	20,000	29,000	5,700	32,000	5,200	17,000	83,000	5,100	10,000	48,000
17	72,000	8,900	18,000	24,000	5,900	33,000	6,000	16,000	80,000	5,200	13,000	46,000
18	63,000	8,500	15,000	13,000	6,000	27,000	6,400	17,000	77,000	5,700	15,000	49,000
19	51,000	8,600	14,000	8,600	6,100	25,000	6,400	17,000	67,000	6,500	13,000	53,000
20	34,000	9,300	14,000	8,800	7,200	25,000	6,400	16,000	62,000	6,600	12,000	56,000
21	26,000	9,600	16,000	11,000	8,900	26,000	6,900	15,000	59,000	6,100	11,000	54,000
22	21,000	9,800	17,000	14,000	12,000	25,000	8,400	14,000	49,000	6,300	11,000	47,000
23	16,000	12,000	17,000	17,000	11,000	21,000	13,000	13,000	41,000	6,800	11,000	45,000
24	14,000	24,000	20,000	18,000	11,000	21,000	19,000	11,000	32,000	6,900	9,800	47,000
25	13,000	28,000	25,000	17,000	13,000	22,000	29,000	8,800	25,000	7,000	9,600	46,000
26	13,000	35,000	31,000	14,000	18,000	23,000	37,000	8,200	18,000	6,500	9,000	49,000
27	13,000	58,000	38,000	15,000	14,000	21,000	35,000	8,200	14,000	5,600	7,500	66,000
28	14,000	83,000	39,000	18,000	13,000	17,000	31,000	8,000	11,000	5,700	6,700	76,000
29	14,000	94,000	35,000	26,000	-----	12,000	28,000	9,100	9,500	6,200	6,600	79,000
30	13,000	93,000	31,000	28,000	-----	9,600	25,000	11,000	9,100	6,400	7,100	78,000
31	17,000	-----	29,000	30,000	-----	8,400	-----	13,000	-----	6,600	7,400	-----
TOTAL	840,000	1,052,6M	1,372.0M	601,400	283,000	477,000	330,000	896,300	1,357.6M	192,100	242,800	1,144.8M
MEAN	27,100	35,090	44,260	19,400	10,110	15,390	11,000	28,910	45,250	6,197	7,832	38,160
MAX	72,000	94,000	95,000	31,000	24,000	33,000	37,000	73,000	87,000	9,000	15,000	79,000
MIN	13,000	8,500	14,000	8,600	5,700	3,600	3,400	8,000	9,100	3,900	4,000	7,400
AC-FT	1,666M	2,088M	2,721M	1,193M	561,300	946,100	654,600	1,778M	2,693M	381,000	481,600	2,271M
CAL YR 1973	TOTAL	12,954,800	MEAN	35,490	MAX	106,000	MIN	6,300	AC-FT	25,700,000		
WTR YR 1974	TOTAL	8,789,600	MEAN	24,080	MAX	95,000	MIN	3,400	AC-FT	17,430,000		

07356000 Ouachita River near Mount Ida, Ark.

LOCATION.--Lat 34°36'36", long 93°41'50", in SE¼SW¼ sec.32, T.1 S., R.2S W., Montgomery County, on right bank 300 ft (91 m) upstream from bridge on U.S. Highway 270, 3.1 mi (5.0 km) upstream from Fiddler's Creek, 5.2 mi (8.4 km) northwest of Mount Ida, and at mile 553.4 (890.4 km).

DRAINAGE AREA.--410 mi² (1,062 km²).

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1311

GAGE.--Water-stage recorder. Datum of gage is 655.14 ft (199.687 m) above mean sea level. Prior to Dec. 3, 1941, and Mar. 1, 1945, to Apr. 1, 1946, nonrecording gage, Dec. 3, 1941, to Feb. 21, 1945, and Apr. 2, 1946, to Nov. 2, 1949, water-stage recorder, all at site 350 ft (107 m) downstream at present datum.

AVERAGE DISCHARGE.--33 years, 728 ft³/s (20.6 m³/s), 24.11 in/yr (612 mm/yr), 527,400 acre-ft/yr (650 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 28,200 ft³/s (799 m³/s) June 8, gage height, 23.89 ft (7.28 m); minimum, 38 ft³/s (1.08 m³/s) July 29, gage height, 1.35 ft (0.411 m).

Period of record: Maximum discharge, 95,500 ft³/s (2,700 m³/s) Dec. 10, 1971, gage height, 38.62 ft (11.771 m), from floodmarks; minimum, 2.3 ft³/s (0.065 m³/s) Aug. 25, 1954, gage height, 1.03 ft (0.314 m).

The flood of Dec. 10, 1971, was about 3.0 ft (0.9 m) higher than that of 1908 and is the highest since at least that date, from information by local resident.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1211: 1947(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	1,780	1,070	522	711	425	252	879	320	111	48	478
2	476	1,060	887	457	639	392	230	1,840	305	103	47	846
3	376	790	985	427	574	362	259	2,560	252	97	56	3,060
4	310	646	10,200	405	495	335	305	3,740	222	92	51	1,030
5	259	582	4,290	380	445	310	287	2,220	2,140	86	45	638
6	217	521	2,140	378	413	309	242	1,320	1,850	83	41	465
7	196	448	1,460	370	383	432	217	954	15,900	83	40	350
8	200	405	1,140	345	350	433	205	741	19,800	88	42	276
9	182	368	949	329	323	369	195	602	5,570	115	44	250
10	156	334	801	2,430	302	332	184	504	2,760	100	113	311
11	155	303	681	7,250	288	8,590	193	449	1,560	79	165	4,050
12	537	279	601	2,690	276	6,920	407	398	1,100	69	128	4,010
13	16,800	263	542	1,670	268	2,180	584	343	994	64	113	3,090
14	9,720	248	483	1,270	251	1,430	452	306	764	60	100	2,180
15	2,470	223	434	1,050	241	1,100	390	455	713	57	86	1,360
16	1,900	208	390	885	240	897	336	440	2,570	56	114	1,090
17	1,370	194	350	768	233	734	299	338	1,330	63	111	2,340
18	1,020	335	324	686	228	624	276	278	863	65	86	1,850
19	815	627	416	667	269	551	252	225	672	71	79	1,290
20	666	739	1,240	1,080	306	496	226	191	532	62	112	1,060
21	551	1,990	943	1,290	428	554	698	171	433	55	99	2,220
22	469	1,370	778	1,030	1,510	583	16,500	166	356	50	73	1,880
23	403	1,540	704	904	1,140	466	5,050	149	300	46	65	1,170
24	346	4,470	2,770	780	867	422	1,930	133	256	43	59	873
25	306	7,220	2,350	681	690	385	1,250	131	210	44	54	1,360
26	278	7,010	1,520	657	581	354	930	1,070	182	46	51	2,420
27	278	6,420	1,150	881	512	332	741	1,010	161	43	50	1,520
28	300	2,810	920	1,090	464	315	610	576	145	40	53	1,100
29	274	1,810	792	1,100	-----	301	511	412	133	42	59	857
30	239	1,340	688	933	-----	286	521	322	121	57	201	687
31	1,090	-----	603	818	-----	272	-----	301	-----	55	545	-----
TOTAL	42,984	46,333	42,601	34,223	13,427	31,491	34,532	23,224	62,514	2,125	2,930	44,111
MEAN	1,387	1,544	1,374	1,104	480	1,016	1,151	749	2,084	68.5	94.5	1,470
MAX	16,800	7,220	10,200	7,250	1,510	8,590	16,500	3,740	19,800	115	545	4,050
MIN	155	194	324	329	228	272	184	131	121	40	40	250
CFSM	3.38	3.77	3.35	2.69	1.17	2.48	2.81	1.83	5.08	.17	.23	3.59
IN.	3.90	4.20	3.87	3.11	1.22	2.86	3.13	2.11	5.67	.19	.27	4.00
AC-FT	85,260	91,900	84,500	67,880	26,630	62,460	68,490	46,060	124,000	4,210	5,810	87,490

CAL YR 1973 TOTAL 514,937 MEAN 1,411 MAX 16,800 MIN 37 CFSM 3.44 IN 46.72 AC-FT 1,021,000
WTR YR 1974 TOTAL 380,495 MEAN 1,042 MAX 19,800 MIN 40 CFSM 2.54 IN 34.52 AC-FT 754,700

PEAK DISCHARGE (BASE, 11,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-13	2300	21.25	22,500	3-11	2400	17.74	15,800
11-27	0100	14.87	11,300	4-22	1600	20.16	20,300
12-4	1300	15.32	12,000	6-8	0700	23.89	28,200

07357500 Lake Ouachita near Hot Springs, Ark.

LOCATION.--Lat 34°34'20", long 93°11'50", in NE¼ sec.12, T.2 S., R.21 W., Garland County, at Blakely Mountain Dam on Ouachita River, 3.0 mi (4.8 km) upstream from Glazypeau Creek, 3.8 mi (6.1 km) downstream from Mill Creek, 10.0 mi (16.1 km) northwest of Hot Springs, and at mile 487.0 (783.6 km).

DRAINAGE AREA.--1,105 mi² (2,862 km²).

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). July 7, 1952, to July 6, 1953, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum contents, 2,432,300 acre-ft (3,000 hm³) June 9-10, elevation, 584.70 ft (178.217 m); minimum, 1,950,000 acre-ft (2,400 hm³) Oct. 12, elevation, 572.79 ft (174.586 m).

Period of record: Maximum contents, 2,609,300 acre-ft (3,217 hm³) May 19, 1968, elevation, 588.63 ft (179.414 m); minimum since top of conservation pool was first reached, 883,000 acre-ft (1,090 hm³) Jan. 9, 1954, elevation, 535.86 ft (163.330 m).

REMARKS.--Lake is formed by rolled earthfill dam. The uncontrolled spillway is a channel 200 ft (61.0 m) wide located in natural saddle of ridge west of dam, and floodflows may be regulated by operations of three 8-ft (2.4 m) by 15-ft (4.6 m) gates. Storage began July 7, 1952. Capacity between elevations 578.0 ft (176.17 m) and 592.0 ft (180.44 m) is 617,300 acre-ft (761 hm³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest.....	592.0 (180.44 m)	2,768,400 (3,410 hm ³)
Top of designated power pool.....	578.0 (176.17 m)	2,151,100 (2,650 hm ³)
Top of conservation pool and bottom of designated power pool.....	535.0 (163.07 m)	864,900 (1,070 hm ³)
Bottom of lowest outlet.....	480.0 (146.30 m)	--

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

572 (174.3 m)	1,920.8 (2,370 hm ³)	583 (177.7 m)	2,358.5 (2,910 hm ³)
575 (175.3 m)	2,033.4 (2,510 hm ³)	585 (178.3 m)	2,445.5 (3,020 hm ³)
579 (176.5 m)	2,191.4 (2,700 hm ³)		

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,973	2,073	2,176	2,102	2,068	1,985	2,001	2,132	2,155	2,168	2,052	2,060
2	1,972	2,072	2,167	2,091	2,066	1,982	2,001	2,132	2,150	2,155	2,050	2,057
3	1,970	2,070	2,159	2,081	2,069	1,978	1,999	2,131	2,150	2,144	2,050	2,066
4	1,967	2,068	2,229	2,069	2,069	1,979	2,001	2,133	2,150	2,136	2,050	2,070
5	1,965	2,069	2,265	2,059	2,062	1,974	2,001	2,143	2,157	2,127	2,048	2,073
6	1,962	2,064	2,265	2,054	2,057	1,970	2,000	2,150	2,156	2,119	2,047	2,073
7	1,962	2,061	2,259	2,055	2,053	1,966	1,999	2,149	2,192	2,114	2,044	2,073
8	1,960	2,057	2,251	2,050	2,047	1,962	2,001	2,149	2,335	2,110	2,043	2,074
9	1,958	2,050	2,242	2,046	2,037	1,957	2,000	2,151	2,413	2,102	2,042	2,074
10	1,954	2,045	2,233	2,046	2,030	1,954	1,999	2,152	2,432	2,095	2,045	2,076
11	1,951	2,042	2,220	2,083	2,027	1,967	1,998	2,154	2,429	2,087	2,048	2,081
12	1,950	2,041	2,211	2,099	2,020	2,003	2,004	2,151	2,422	2,082	2,047	2,094
13	1,979	2,033	2,202	2,097	2,015	2,013	2,005	2,148	2,414	2,074	2,049	2,102
14	2,063	2,032	2,189	2,094	2,010	2,014	2,008	2,142	2,404	2,073	2,054	2,106
15	2,086	2,027	2,179	2,092	2,003	2,013	2,010	2,176	2,389	2,072	2,053	2,110
16	2,089	2,021	2,168	2,088	2,000	2,012	2,011	2,189	2,385	2,072	2,054	2,111
17	2,090	2,017	2,154	2,087	1,998	2,010	2,011	2,188	2,376	2,071	2,054	2,113
18	2,091	2,018	2,146	2,087	1,996	2,011	2,011	2,177	2,362	2,070	2,054	2,113
19	2,089	2,022	2,138	2,088	2,000	2,008	2,011	2,170	2,347	2,066	2,053	2,112
20	2,087	2,025	2,139	2,091	1,994	2,006	2,011	2,170	2,332	2,062	2,053	2,108
21	2,083	2,036	2,128	2,089	1,989	2,007	2,015	2,167	2,316	2,059	2,052	2,105
22	2,082	2,040	2,122	2,084	1,997	2,004	2,109	2,158	2,299	2,056	2,051	2,107
23	2,078	2,045	2,120	2,080	1,999	2,003	2,162	2,150	2,282	2,055	2,050	2,111
24	2,074	2,078	2,134	2,074	2,000	2,004	2,162	2,145	2,264	2,054	2,049	2,111
25	2,070	2,109	2,150	2,067	2,000	2,003	2,156	2,142	2,247	2,053	2,047	2,114
26	2,067	2,144	2,147	2,061	1,996	2,002	2,152	2,158	2,233	2,055	2,045	2,117
27	2,063	2,177	2,142	2,061	1,993	2,000	2,147	2,160	2,220	2,055	2,045	2,118
28	2,065	2,195	2,131	2,069	1,989	2,000	2,142	2,155	2,207	2,053	2,045	2,116
29	2,065	2,190	2,126	2,071	-----	2,000	2,143	2,150	2,193	2,052	2,047	2,112
30	2,060	2,183	2,117	2,071	-----	2,002	2,138	2,148	2,181	2,055	2,055	2,113
31	2,068	-----	2,113	2,067	-----	2,000	-----	2,148	-----	2,055	2,057	-----
MAX	2,091	2,195	2,265	2,102	2,069	2,014	2,162	2,189	2,432	2,168	2,057	2,118
MIN	1,950	2,017	2,113	2,046	1,989	1,954	1,998	2,131	2,150	2,052	2,042	2,057
(+)	575.96	578.68	576.88	575.88	573.75	574.14	577.53	578.10	578.53	575.47	575.62	576.90
(+)	+98.4	+108.0	-71.9	-39.2	-81.4	+14.7	+131.7	+22.7	+17.3	-120.8	+5.8	+50.0

CAL YR 1973..... ‡ -26.2

WTR YR 1974..... ‡ +135.3

† ELEVATION, IN FEET, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN THOUSANDS OF ACRE-FEET.

07357501 Ouachita River at Blakely Mountain Dam, near Hot Springs, Ark.

LOCATION.--Lat 34°34'17", long 93°11'23", in NE¼ sec.12, T.2 S., R.21 W., Garland County, on outlet of power tunnel at Blakely Mountain Dam, 2.3 mi (3.7 km) upstream from Glazypeau Creek, 10.0 mi (16.1 km) northwest of Hot Springs, and at mile 486.9 (783.4 km).

DRAINAGE AREA.--1,105 mi² (2,862 km²).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. October 1950 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. October 1, 1950, to Mar. 17, 1952, water-stage recorder at site 2,000 ft (610 m) downstream at datum 395.92 ft (120.676 m) above mean sea level. Mar. 18, 1952, to Aug. 29, 1955, water-stage recorder at site 1,700 ft (520 m) downstream at present datum.

AVERAGE DISCHARGE.--24 years, 1,489 ft³/s (42.2 m³/s), 1,078,000 acre-ft/yr (1,329 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 9,440 ft³/s (267 m³/s) June 22; minimum daily, 20 ft³/s (0.57 m³/s) at times.

Period of record: Maximum daily discharge since storage began, 9,550 ft³/s (270 m³/s) June 13, 1968; minimum daily, 15 ft³/s (0.42 m³/s) Sept. 1, 1973 (estimated leakage).

REMARKS.--Discharge computed from flowmeter and estimated leakage. Flow completely regulated by Lake Ouachita since July 1952. (See station 07357500.) Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,130	2,760	6,600	6,560	3,160	3,300	772	2,240	4,450	6,610	140	1,650
2	1,070	3,210	6,100	6,620	503	3,320	1,380	2,760	20	6,640	634	1,370
3	1,820	2,200	4,690	6,610	510	23	446	2,630	71	5,060	20	439
4	1,500	920	1,130	6,620	4,220	3,010	410	20	110	4,180	265	20
5	1,370	3,440	5,080	4,550	3,260	2,800	404	411	6,210	4,520	468	430
6	460	2,240	6,570	20	2,620	3,140	347	2,270	5,640	2,630	934	35
7	800	3,170	6,570	2,860	4,580	3,140	20	881	200	1,810	162	178
8	1,700	3,230	6,560	3,190	4,790	3,270	274	20	20	4,090	396	452
9	1,840	3,150	6,560	2,960	4,740	2,950	382	20	803	3,770	340	20
10	1,740	2,640	6,570	3,230	1,660	419	354	482	6,410	3,680	300	1,060
11	1,270	270	6,570	2,620	4,270	4,420	20	1,020	6,440	2,900	471	974
12	1,740	3,700	6,520	5,950	2,920	3,870	379	2,990	6,420	3,400	331	1,270
13	20	1,840	6,510	5,980	2,950	3,620	20	3,050	6,410	1,220	76	2,490
14	20	2,920	6,530	4,340	4,410	3,120	20	1,780	8,210	375	487	940
15	2,880	2,720	6,540	4,110	3,720	3,060	246	20	9,350	426	330	1,030
16	2,840	2,800	6,540	2,630	1,310	2,720	242	2,590	9,360	508	506	2,010
17	1,700	2,350	6,090	1,730	20	446	233	4,850	9,350	681	316	3,410
18	2,140	20	5,090	1,210	1,860	2,960	195	6,550	9,340	1,640	162	3,490
19	2,590	949	4,500	1,050	2,300	1,800	287	755	9,370	2,270	356	3,820
20	2,580	541	5,070	2,660	2,650	1,990	404	1,790	9,390	1,410	396	4,000
21	1,480	1,880	6,540	4,550	2,540	1,830	20	3,860	9,430	869	721	1,310
22	2,560	62	3,410	4,290	2,040	1,560	258	6,400	9,440	227	461	20
23	2,280	882	20	4,750	1,970	945	6,000	2,690	9,400	446	335	1,060
24	2,480	20	20	4,830	1,920	422	6,650	1,680	9,430	464	1,090	961
25	2,540	20	4,720	4,460	3,280	1,960	6,380	20	8,450	428	411	1,500
26	2,480	20	6,520	2,420	2,820	1,440	4,310	2,060	6,560	20	384	2,930
27	780	2,240	6,380	651	2,670	802	4,060	3,720	6,570	542	20	3,220
28	20	4,700	6,460	2,650	2,960	328	20	4,270	6,580	719	536	3,770
29	2,580	6,620	4,520	3,030	-----	575	3,760	1,510	6,590	1,100	171	20
30	2,960	6,610	4,970	4,070	-----	472	3,980	683	6,600	76	867	3,550
31	472	-----	4,670	1,370	-----	303	-----	20	-----	1,240	363	-----
TOTAL	51,842	68,124	164,620	112,571	76,653	64,015	42,273	64,042	186,624	63,951	12,449	47,429
MEAN	1,672	2,271	5,310	3,631	2,738	2,065	1,409	2,066	6,221	2,063	402	1,581
MAX	2,960	6,620	6,600	6,620	4,790	4,420	6,650	6,550	9,440	6,640	1,090	4,000
MIN	20	20	20	20	20	23	20	20	20	20	20	20
AC-FT	102,800	135,100	326,500	223,300	152,000	127,000	83,850	127,000	370,200	126,800	24,690	94,080
CAL YR 1973	TOTAL	1,301,268	MEAN	3,565	MAX	6,750	MIN	15	AC-FT	2,581,000		
WTR YR 1974	TOTAL	954,593	MEAN	2,615	MAX	9,440	MIN	20	AC-FT	1,893,000		

07358500 Lake Hamilton near Hot Springs, Ark.

LOCATION.--Lat 34°26'30", long 93°01'30", in sec.27, T.3 S., R.19 W., Garland County, at Carpenter Dam on Ouachita River, 1.5 mi (2.5 km) downstream from Hot Springs Creek, and 4.5 mi (7.2 km) southeast of Hot Springs.

DRAINAGE AREA.--1,441 mi² (3,832 km²).

PERIOD OF RECORD.--December 1930 to current year. Monthend contents prior to October 1950, published in WSP 1311; October 1950 to September 1960 published in WSP 1731; October 1960 to September 1965 published in WSP 1920.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents observed, 188,700 acre-ft (233 hm³) Oct. 31, elevation, 399.80 ft (121.859 m); minimum observed, 156,200 acre-ft (193 hm³) Dec. 31, elevation, 394.75 ft (120.320 m).
Period of record: Maximum contents, 208,100 acre-ft (257 hm³) Mar. 31, 1945, elevation, 402.28 ft (122.615 m); minimum since top of gates was first reached, 70,600 acre-ft (87.0 hm³) Feb. 13, 14, 16, 1936, elevation, 375.01 ft (114.303 m).

REMARKS.--Lake is formed by concrete-gravity dam. Storage began Dec. 17, 1930. Capacity at top of taintor gates, 190,100 acre-ft (234 hm³), elevation, 400 ft (121.9 m); at spillway crest, 70,560 acre-ft (87.0 hm³), elevation, 375 ft (114.3 m). Contents below spillway crest represents dead storage. Lake is used for power development. Figures given herein represent total contents.

COOPERATION.--Records furnished by Arkansas Power and Light Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET)†	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
SEPT. 30.....	398.99	183,100	
OCT. 31.....	399.80	188,700	+5,600
NOV. 30.....	398.99	183,100	-5,600
DEC. 31.....	394.75	156,200	-26,900
CALENDAR YEAR 1973.....	-	-	-2,200
JAN. 31.....	395.08	158,200	+2,000
FEB. 28.....	395.19	158,800	+600
MAR. 31.....	398.03	176,800	+18,000
APR. 30.....	397.76	175,000	-1,800
MAY 31.....	398.93	182,700	+7,700
JUNE 30.....	399.60	187,300	+4,600
JULY 31.....	399.02	183,300	-4,000
AUG. 31.....	398.79	181,800	-1,500
SEPT. 30.....	398.95	182,800	+1,000
WATER YEAR 1974.....	-	-	-300

† Elevation at 2400 hours.

07359000 Lake Catherine at Jones Mill, Ark.

LOCATION.--Lat 34°25'35", long 92°53'40", in SW¼NW¼ sec.36, T.3 S., R.18 W., Hot Spring County, at Remmel Dam on Ouachita River at Jones Mill.

DRAINAGE AREA.--1,516 mi² (3,926 km²).

PERIOD OF RECORD.--October 1924 to current year. Monthend contents prior to October 1950, published in WSP 1311; October 1950 to September 1960 published in WSP 1731; October 1960 to September 1965 published in WSP 1920.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Jan. 10, 1956, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum contents observed, 34,900 acre-ft (43.0 hm³) Nov. 30, elevation, 304.84 ft (92.915 m); minimum observed, 25,300 acre-ft (31.2 hm³) Jan. 31, elevation, 299.22 ft (91.202 m).
Period of record: Maximum contents, 59,1600 acre-ft (72.9 hm³) Apr. 21, 1927, elevation, 315.75 ft (96.241 m); minimum since top of gates was first reached, 16,370 acre-ft (20.2 hm³) Feb. 7, 1925, elevation, 292.34 ft (89.105 m).

REMARKS.--Lake is formed by concrete-gravity dam. Storage began Oct. 11, 1924. Capacity at top of taintor gates, 35,250 acre-ft (43.5 hm³), elevation, 305 ft (93.0 m); at spillway crest, 13,950 acre-ft (17.2 hm³), elevation, 290 ft (88.4 m). Contents below spillway crest represents dead storage. Lake is used for power development. Figures given herein represent total contents.

COOPERATION.--Records furnished by Arkansas Power and Light Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ELEVATION (FEET) †	CONTENTS (ACRE-Feet)	CHANGE IN CONTENTS (ACRE-Feet)
SEPT. 30.....	303.98	33,300	-
OCT. 31.....	304.18	33,700	+400
NOV. 30.....	304.84	34,900	+1,200
DEC. 31.....	300.99	28,100	-6,800
CALENDAR YEAR 1973.....	-	-	+2,600
JAN. 31.....	299.22	25,300	-2,800
FEB. 28.....	300.45	27,200	+1,900
MAR. 31.....	304.24	33,800	+6,600
APR. 30.....	304.09	33,500	-300
MAY 31.....	304.33	34,000	+500
JUNE 30.....	304.54	34,400	+400
JULY 31.....	304.02	33,400	-1,000
AUG. 31.....	303.96	33,300	-100
SEPT. 30.....	304.34	34,000	+700
WATER YEAR 1974.....	-	-	+700

† Elevation at 2400 hours.

07359500 Ouachita River near Malvern, Ark.

LOCATION.--Lat 34°23'10", long 92°50'20", in NW¼ sec.16, T.4 S., R.17 W., Hot Spring County, near right bank on downstream side of bridge on State Highway 84, 2.0 mi (3.2 km) northwest of Malvern, 5.8 mi (9.3 km) downstream from R Emmel Dam, and at mile 450.1 (724.2 km).

DRAINAGE AREA.--1,562 mi² (4,046 km²).

PERIOD OF RECORD.--March 1903 to April 1905, June 1922 to September 1925 (fragmentary), October 1925 to April 1927, January 1928 to current year. Published as "at R Emmel Dam, near Malvern" January 1925 to March 1937.

GAGE.--Water-stage recorder. Datum of gage is 228.05 ft (69.510 m) above mean sea level. March 1903 to April 1905, nonrecording gage at present site at datum 2.0 ft (0.6 m) higher. June 1922 to September 1924, nonrecording gage at present site and datum. January 1925 to March 1937, water-stage recorder at R Emmel Dam, 5.8 mi (9.3 km) upstream at datum 20.11 ft (6.130 m) higher.

AVERAGE DISCHARGE.--47 years (1925-26, 1928-74), 2,375 ft³/s (67.3 m³/s), 1,721,000 acre-ft/yr (2,120 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 76,000 ft³/s (2,150 m³/s) Apr. 22, gage height, 23.36 ft (7.120 m); minimum, 67 ft³/s (1.90 m³/s) Sept. 22, 30, gage height, 0.55 ft (0.168 m); minimum daily, 320 ft³/s (9.06 m³/s) Mar. 30.
Period of record: Maximum discharge, 140,000 ft³/s (3,960 m³/s) May 15, 1923, gage height, 30.3 ft (9.24 m); minimum, 35 ft³/s (0.99 m³/s) Sept. 18, 1955; minimum daily observed, 40 ft³/s (1.13 m³/s) Dec. 18-20, 1904.

REMARKS.--Records good. Flow regulated by Lake Catherine, 5.8 mi (9.3 km) upstream, since 1925 (see station 07359000), by Lake Hamilton since 1932 (see station 07358500), and by Lake Ouachita since July 1952 (see station 07357500). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 587: 1923. WSP 857: 1923(M). WSP 977: 1942. WSP 1211: Drainage area. WSP 1391: 1903-04.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,050	5,050	9,390	7,620	4,000	3,510	714	2,630	10,100	6,700	757	1,600
2	1,220	5,880	9,680	6,790	1,590	3,230	2,090	2,890	1,300	6,140	521	3,140
3	1,630	3,670	9,330	8,010	1,420	1,190	811	3,070	722	4,620	424	991
4	1,900	3,580	27,400	7,020	4,530	2,130	437	1,600	1,490	4,870	430	472
5	1,810	4,590	9,770	5,700	5,080	2,770	493	784	9,300	5,580	444	465
6	1,150	3,670	9,800	1,430	2,200	2,700	458	2,150	9,640	4,090	444	451
7	739	3,660	9,370	2,510	5,550	2,510	820	1,040	35,400	3,280	444	376
8	1,510	3,630	8,730	3,620	4,900	2,860	514	412	24,100	4,210	451	549
9	2,550	3,600	9,860	3,620	4,930	2,510	493	586	14,000	3,250	458	802
10	1,570	3,600	9,300	7,420	2,580	666	458	556	8,930	3,180	479	1,210
11	1,900	1,190	8,900	11,600	4,500	5,790	757	1,490	9,440	3,370	472	1,380
12	2,170	2,630	10,200	10,700	3,460	6,420	1,030	3,390	7,810	3,320	458	2,420
13	6,070	2,570	8,540	8,400	3,590	3,870	458	2,920	7,340	2,760	472	2,920
14	4,890	3,250	9,960	5,980	4,560	3,530	493	4,120	7,840	542	451	2,240
15	3,620	3,560	8,030	5,380	4,040	3,580	634	26,500	9,680	451	682	2,010
16	5,530	3,590	6,340	3,970	3,040	2,700	479	12,600	10,200	451	811	3,240
17	3,600	3,210	6,570	3,030	365	739	542	8,610	9,320	865	528	3,810
18	2,790	3,460	5,250	2,300	2,310	2,460	350	6,010	9,750	1,240	479	3,700
19	3,590	3,630	6,730	2,030	3,060	2,840	500	2,680	9,530	1,610	634	4,300
20	3,410	6,870	6,860	3,110	3,510	3,300	578	2,180	8,830	2,370	437	4,210
21	2,260	6,900	7,590	5,760	4,620	2,590	4,720	4,470	9,210	1,400	698	2,230
22	2,830	3,950	5,770	5,960	3,800	2,800	43,700	8,520	9,280	406	650	586
23	2,890	15,300	2,590	5,830	3,790	1,210	10,900	2,890	9,500	418	479	964
24	3,100	17,300	5,280	5,560	3,560	706	8,790	2,190	8,910	610	964	1,660
25	2,790	7,930	7,180	5,470	3,630	2,300	8,810	1,820	8,010	479	578	2,270
26	2,600	16,600	9,150	4,440	3,720	2,150	6,540	10,400	7,020	1,400	514	3,480
27	2,630	11,200	8,250	1,070	3,700	1,580	6,330	5,140	6,890	394	458	4,300
28	444	10,500	7,300	7,670	3,560	865	1,860	5,740	6,310	465	412	4,360
29	2,180	9,100	5,680	6,410	-----	1,040	4,710	2,680	6,570	1,130	1,040	1,140
30	2,670	9,260	6,840	5,710	-----	320	6,040	1,350	6,660	2,130	2,790	3,450
31	13,200	-----	5,170	4,740	-----	674	-----	5,530	-----	919	1,100	-----
TOTAL	90,293	182,930	260,810	168,860	99,595	75,540	115,509	136,948	283,082	72,650	19,959	64,726
MEAN	2,913	6,098	8,413	5,447	3,557	2,437	3,850	4,418	9,436	2,344	644	2,158
MAX	13,200	17,300	27,400	11,600	5,550	6,420	43,700	26,500	35,400	6,700	2,790	4,360
MIN	444	1,190	2,590	1,070	365	320	350	412	722	394	412	376
AC-FT	179,100	362,800	517,300	334,900	197,500	149,800	229,100	271,600	561,500	144,100	39,590	128,400
CAL YR 1973	TOTAL 1,942,348		MEAN 5,322		MAX 50,400		MIN 269		AC-FT 3,853,000			
WTR YR 1974	TOTAL 1,570,902		MEAN 4,304		MAX 43,700		MIN 320		AC-FT 3,116,000			

07359900 DeGray Lake near Arkadelphia, Ark.

LOCATION.--Lat 34°12'54", long 93°06'46", in NW¼SW¼ sec.14, T.6 S., R.20 W., Clark County, at DeGray Dam on Caddo River, 2.5 mi (4.0 km) upstream from DeGray Creek, 3.3 mi (5.3 km) northwest of Caddo Valley, 7.4 mi (11.9 km) northwest of Arkadelphia, and at mile 7.9 (12.7 km).

DRAINAGE AREA.--453 mi² (1,173 km²).

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Recording gage. Datum of gage is at mean sea level. Prior to Jan. 29, 1971, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum contents, 796,800 acre-ft (982 hm³) June 11, elevation, 417.79 ft (127.342 m); minimum, 606,800 acre-ft (748 hm³) Feb. 11, elevation, 404.32 ft (123.237 m).

Period of record: Maximum contents, 796,800 acre-ft (982 hm³) June 11, 1974, elevation, 417.79 ft (127.342 m); minimum since initial filling of conservation pool, 282,100 acre-ft (348 hm³) June 22, 1970, elevation, 370.11 ft (112.810 m).

REMARKS.--Lake is formed by rolled earthfill dam with an uncontrolled 200-ft (61.0 m) wide spillway located in natural saddle 4,000 ft (1,220 m) east of left abutment of dam. The outlet works has portals to withdraw water from three different elevations. A regulating dam is located downstream from main dam. Storage began Aug. 7, 1969. Capacity between elevations 408.0 ft (124.36 m) and 423.0 ft (128.93 m) is 227,200 acre-ft (280 hm³), and is reserved for flood-control storage. Capacity between 367.0 ft (111.86 m) and 408.0 ft (124.36 m) is 393,200 acre-ft (485 hm³), and is reserved for water supply and power generation. Capacity below 367.0 ft (111.86 m) is 261,500 acre-ft (322 hm³), and is conservation storage. Lake is used for flood-control, power-development, water-supply, pollution-abatement, and recreation purposes. Figures given herein represent total contents. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Spillway crest.....	423.0 (128.93 m)	881,900 (1,090 hm ³)
Top of power pool.....	408.0 (124.36 m)	654,700 (807 hm ³)
Top of conservation pool.....	367.0 (111.86 m)	261,500 (322 hm ³)
Bottom of lowest outlet.....	345.0 (105.16 m)	148,700 (183 hm ³)

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-feet)

404 (123.1 m)	602,700 (743 hm ³)	415 (126.5 m)	754,200 (930 hm ³)
407 (124.1 m)	641,300 (791 hm ³)	418 (127.4 m)	800,200 (987 hm ³)
410 (125.0 m)	682,000 (841 hm ³)		

CONTENTS, IN ACRE-FEET, AT 0000, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	626,700	642,100	670,300	627,800	627,700	614,500	617,300	717,600	655,100	653,600	628,100	631,200
2	625,000	639,600	661,000	623,800	627,600	614,500	617,800	708,900	654,600	653,600	627,800	630,500
3	625,100	635,600	653,400	618,600	629,200	613,900	617,400	697,700	656,700	652,300	627,800	630,700
4	622,300	632,600	683,700	617,800	628,900	614,500	618,200	687,200	654,200	652,300	627,600	631,900
5	620,600	632,100	699,600	615,900	625,600	615,400	617,900	678,100	654,600	652,300	627,600	632,500
6	617,900	626,700	701,100	615,900	624,600	615,800	618,200	667,100	655,800	651,700	627,600	633,200
7	618,200	622,200	693,700	616,400	624,000	615,400	618,100	660,900	658,300	651,700	627,400	633,300
8	618,600	619,700	684,500	616,900	617,800	615,500	619,000	661,300	714,900	651,700	627,200	633,600
9	617,600	613,900	674,900	617,800	610,300	615,900	618,200	661,400	783,000	649,100	627,300	634,900
10	617,400	611,500	664,800	619,700	608,500	616,300	617,800	661,800	792,100	645,000	626,300	635,400
11	614,600	611,300	654,200	632,000	607,900	619,500	617,400	662,800	794,400	642,100	627,000	635,300
12	613,000	611,600	643,300	637,000	606,800	627,200	619,500	657,800	787,400	641,300	627,700	634,900
13	614,100	611,100	637,200	638,300	607,000	630,000	620,500	653,200	781,000	638,500	629,100	635,600
14	641,000	609,900	633,200	638,000	607,400	631,500	621,900	649,100	771,500	638,500	628,600	634,700
15	644,400	608,500	629,900	635,800	608,400	628,300	621,900	653,000	761,300	638,500	628,200	632,600
16	644,900	607,000	627,400	635,300	609,000	622,800	621,900	653,400	753,200	638,500	628,900	631,600
17	644,200	605,200	626,800	635,300	609,600	621,700	622,000	649,600	746,200	638,500	628,100	629,200
18	642,900	605,900	625,900	636,600	609,900	622,200	621,500	647,900	736,300	637,900	628,700	625,100
19	641,300	608,700	625,100	637,600	610,400	619,700	620,600	644,000	726,300	636,000	628,700	626,000
20	638,300	609,800	628,300	637,500	609,300	618,100	620,400	644,500	715,800	632,600	629,800	626,800
21	637,200	617,200	624,200	631,500	610,600	617,600	620,900	643,000	704,600	630,500	629,500	624,700
22	635,800	621,100	623,700	625,600	614,800	614,500	659,100	644,500	693,500	630,500	627,900	625,100
23	632,600	624,300	624,200	625,900	615,900	613,200	698,900	643,600	681,900	630,200	627,900	625,500
24	628,500	645,300	629,200	624,900	618,500	613,000	705,600	642,400	670,000	630,700	627,700	625,600
25	624,000	654,600	636,700	620,600	619,600	613,400	709,700	642,100	658,300	630,800	626,100	629,800
26	623,400	670,000	641,000	620,000	618,100	613,700	712,000	649,700	653,600	630,900	626,100	634,300
27	623,600	684,400	638,500	619,900	617,400	614,300	713,700	656,200	653,600	630,900	625,900	632,800
28	624,200	692,800	637,500	624,700	615,300	614,800	715,000	656,200	653,600	630,400	626,100	630,900
29	619,600	687,000	633,600	626,500	-----	615,900	716,000	652,400	653,600	630,400	627,800	627,300
30	623,400	679,000	631,900	627,800	-----	616,500	716,900	651,300	653,600	629,500	627,700	628,100
31	633,200	-----	633,200	628,200	-----	616,800	-----	651,500	-----	629,400	631,100	-----
MAX	644,900	692,800	701,100	638,300	629,200	631,500	716,900	717,600	794,400	653,600	631,100	635,600
MIN	613,000	605,200	623,700	615,900	606,800	613,000	617,300	642,100	653,600	629,400	625,900	624,700
(†)	406.88	409.36	405.96	405.91	404.91	405.13	412.50	408.13	407.93	405.99	406.15	405.83
(‡)	+13,300	+33,500	-45,500	-700	-12,700	+2,800	+100,400	-61,100	-2,600	-25,700	+2,100	-4,200
CAL YR 1973.....	‡ +400											
WTR YR 1974.....	‡ -400											

† ELEVATION, IN FEET, AT 2400, AT END OF MONTH.

‡ CHANGE IN CONTENTS, IN ACRE-FEET.

RED RIVER BASIN

07359910 Caddo River at DeGray Regulating Dam, near Arkadelphia, Ark.

LOCATION.--Lat 34°10'38", long 93°06'00", in NW¼NE¼ sec.35, T.6 S., R.20 W., Clark County, in control house on left bank at DeGray Regulating Dam, 0.1 mi (0.2 km) downstream from DeGray Creek, 2.2 mi (3.5 km) west of Caddo Valley, 4.2 mi (6.8 km) northwest of Arkadelphia, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--480 mi² (1,243 km²).

PERIOD OF RECORD.--January 1967 to current year. Prior to Jan. 1, 1971, published as Caddo River at DeGray Dam, near Arkadelphia. Gage-height records collected and occasional discharge measurements made by Corps of Engineers in the vicinity since February 1947. Daily stages 1964 to date and results of discharge measurements 1947 to date in published reports of Corps of Engineers. Prior to November 1963, discharge measurements were at dams site range.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Jan. 1, 1969, water-stage recorder at site 2.6 mi (4.2 km) upstream at datum 209.04 ft (63.715 m) above mean sea level. Jan. 1, 1969, to Dec. 31, 1970, nonrecording gage at site 3.1 mi (5.0 km) upstream at present datum.

AVERAGE DISCHARGE.--7 years, 786 ft³/s (22.3 m³/s), 569,500 acre-ft/yr (702 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 6,820 ft³/s (193 m³/s) June 8; minimum daily discharge, 137 ft³/s (3.88 m³/s) Apr. 7, 8.

Period of record: Maximum discharge, 44,300 ft³/s (1,250 m³/s) May 14, 1968, gage height, 21.55 ft (6.568 m), site and datum then in use, affected by temporary storage behind Dam, then under construction; no flow at times.

Flood of Apr. 26, 1966, reached a stage of 18.98 ft (5.785 m), site and datum then in use.

REMARKS.--Flow regulated by DeGray Lake since August 1969 (see station 07359900), and by DeGray Regulating Dam since January 1971, capacity, 3,600 acre-ft (4.44 hm³).

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	647	3,280	5,980	2,000	1,150	484	153	167	4,130	155	184	1,390
2	205	3,560	5,980	3,210	172	861	153	178	628	157	168	1,120
3	1,270	2,960	4,930	1,120	425	244	160	5,880	1,560	167	166	324
4	1,010	2,400	4,500	1,010	2,140	167	157	5,880	1,140	166	163	170
5	1,240	3,720	2,920	567	1,390	166	153	5,880	3,500	165	160	167
6	219	3,000	3,660	182	338	240	150	5,540	5,980	165	155	165
7	165	2,370	5,930	168	3,580	207	137	355	6,680	163	152	163
8	343	3,510	5,980	168	4,000	168	137	168	6,820	722	141	160
9	199	1,750	5,980	167	1,520	168	153	166	3,230	1,930	142	157
10	1,220	498	6,040	2,940	481	166	155	165	2,490	1,620	157	214
11	1,150	211	5,930	3,430	910	1,700	157	420	3,670	444	153	1,640
12	1,700	455	5,800	2,010	196	1,090	155	4,450	5,880	1,290	150	1,500
13	926	759	2,600	1,750	168	842	152	1,880	5,880	234	152	1,670
14	1,710	877	2,220	2,770	166	2,240	150	1,310	5,880	167	163	2,450
15	2,420	1,050	2,070	1,510	165	4,050	152	4,750	5,880	166	165	1,470
16	2,560	1,210	510	907	163	1,500	152	3,720	5,880	163	165	2,040
17	1,850	761	669	297	160	420	150	1,810	5,880	165	166	2,680
18	1,680	829	601	334	169	2,070	165	2,390	5,880	489	165	463
19	2,110	1,440	873	1,630	1,110	1,280	169	401	5,880	1,570	161	168
20	1,240	1,780	2,740	3,370	170	1,410	169	967	5,880	1,150	161	1,360
21	1,130	464	1,230	4,350	178	2,200	168	199	5,880	244	345	364
22	2,010	188	464	1,500	643	1,350	173	514	5,880	167	197	168
23	2,270	2,740	199	1,200	318	587	169	950	6,080	166	168	167
24	2,620	3,040	314	2,760	168	274	169	338	6,030	163	612	165
25	564	2,200	169	1,420	1,180	168	168	174	4,770	160	211	210
26	234	3,680	2,190	1,090	1,000	167	167	349	205	155	167	2,390
27	169	3,090	1,990	242	1,480	166	165	1,320	167	155	166	2,310
28	168	3,670	2,760	2,140	1,110	165	161	2,900	165	155	163	2,540
29	335	5,880	1,400	1,540	-----	163	157	1,200	163	157	163	386
30	203	5,880	334	1,440	-----	161	153	545	160	165	167	1,240
31	2,490	-----	2,780	1,380	-----	157	-----	929	-----	242	1,490	-----
TOTAL	36,057	67,252	89,743	48,602	24,650	25,031	4,729	55,895	122,248	13,177	7,038	29,411
MEAN	1,163	2,242	2,895	1,568	880	807	158	1,803	4,075	425	227	980
MAX	2,620	5,880	6,040	4,350	4,000	4,050	173	5,880	6,820	1,930	1,490	2,680
MIN	165	188	169	167	160	157	137	165	160	155	141	157
AC-FT	71,520	133,400	178,000	96,400	48,890	49,650	9,380	110,900	242,500	26,140	13,960	58,340
CAL YR 1973	TOTAL 603,681		MEAN 1,654	MAX 6,410	MIN 133	AC-FT 1,197,000						
WTR YR 1974	TOTAL 523,833		MEAN 1,435	MAX 6,820	MIN 137	AC-FT 1,039,000						

07360000 Ouachita River at Arkadelphia, Ark.

LOCATION.--Lat 34°07'16", long 93°02'46", in sec.17, T.7 S., R.19 W., Clark County, on downstream side of bridge on State Highway 7 at Arkadelphia, 5.4 mi (8.7 km) downstream from Caddo River, and at mile 420.6 (676.7 km).

DRAINAGE AREA.--2,311 mi² (5,985 km²).

PERIOD OF RECORD.--September 1905 to December 1906, May 1929 to September 1950, and October 1965 to current year in reports of Geological Survey. Monthly discharge only for some periods published in WSP 1311. October 1950 to date in reports of Corps of Engineers. Gage-height records collected at same site since 1913 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 160.30 ft (48.859 m) above mean sea level. September 1905 to December 1906, nonrecording gage at site 800 ft (244 m) downstream at different datum. Apr. 16, 1929, to Sept. 28, 1934, nonrecording gage at present site at datum 5.00 ft (1.524 m) higher. Sept. 29, 1934, to Mar. 31, 1946, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--46 years (1905-06, 1929-74), 3,513 ft³/s (99.5 m³/s), 2,545,000 acre-ft/yr (3,140 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 56,500 ft³/s (1,600 m³/s) June 8, gage height, 27.02 ft (8.236 m); minimum daily, 340 ft³/s (9.63 m³/s) Aug. 8, 10-11, 15.
Period of record: Maximum discharge, 170,000 ft³/s (4,810 m³/s) Mar. 30, 1945, gage height, 30.3 ft (9.24 m), from floodmark, from rating curve extended above 161,000 ft³/s (4,560 m³/s); minimum daily, 74 ft³/s (2.10 m³/s) Oct. 5, 1931.

REMARKS.--Flow regulated by Lake Catherine, 37.5 mi (60.3 km) upstream, since 1925 (see station 07359000), by Lake Hamilton since 1932 (see station 07358500), by Lake Ouachita since 1952 (see station 07357500), by DeGray Lake since August 1969 (see station 07359900).

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	840	15,500	15,200	6,830	4,720	4,080	790	5,480	13,200	6,000	1,320	2,670
2	1,450	9,550	15,200	5,550	4,460	3,950	1,220	7,670	7,120	5,740	745	3,120
3	1,750	8,430	14,200	6,350	2,030	3,310	1,850	8,040	1,530	5,230	691	4,330
4	2,990	6,830	34,000	6,990	3,560	1,030	844	8,220	2,350	4,330	583	1,370
5	2,590	8,590	28,700	6,990	6,120	2,800	628	6,250	7,670	4,970	574	978
6	2,020	8,750	16,600	5,550	4,460	2,860	673	5,870	15,600	4,970	574	826
7	906	7,310	15,900	1,550	5,360	2,800	619	3,120	21,200	4,200	574	763
8	934	6,670	15,600	3,820	8,220	2,920	900	1,270	56,500	3,310	340	682
9	1,850	6,670	15,000	3,950	7,120	2,730	691	754	48,600	4,840	430	1,040
10	2,430	4,270	14,800	8,220	4,590	2,410	664	790	24,300	4,970	340	929
11	2,990	3,230	15,300	19,500	3,560	3,560	682	790	15,600	4,080	340	1,640
12	3,150	1,850	14,700	16,100	4,590	8,220	1,420	5,480	15,200	3,950	430	2,220
13	3,950	3,150	13,100	12,500	3,560	6,250	853	4,460	14,100	3,820	430	3,820
14	9,390	3,950	11,300	10,100	3,440	4,590	867	3,820	13,400	2,090	430	5,610
15	6,190	4,430	11,200	7,850	4,840	6,560	745	15,200	15,000	871	340	3,690
16	7,310	4,590	8,750	6,000	4,080	4,840	772	28,300	15,400	736	430	3,180
17	6,830	4,270	6,670	4,080	2,030	2,600	664	16,100	15,600	745	1,320	4,970
18	4,750	4,270	6,670	3,310	1,090	2,670	700	8,770	15,400	1,170	736	6,560
19	5,230	5,710	7,310	3,560	4,460	3,310	637	6,560	15,200	2,480	664	3,950
20	5,070	7,470	10,500	5,480	3,820	4,460	853	2,480	14,800	3,310	772	4,590
21	3,950	13,100	10,200	8,220	4,460	4,590	1,020	3,120	14,800	2,350	601	4,590
22	3,950	8,590	8,270	8,590	5,870	4,330	24,300	7,300	15,200	1,270	1,080	2,160
23	4,270	6,830	5,710	6,560	4,840	2,670	34,700	5,610	15,000	673	682	790
24	5,550	27,000	5,390	7,480	4,080	1,850	14,700	3,440	14,500	709	736	1,480
25	3,710	20,800	7,950	6,930	4,330	1,220	10,400	2,350	14,300	700	1,420	2,730
26	2,590	18,500	10,800	6,250	4,720	2,280	6,560	9,880	6,930	1,420	691	4,590
27	3,390	24,200	11,500	3,690	4,590	2,220	6,250	9,320	6,380	835	700	5,740
28	1,400	17,900	11,200	6,750	4,460	1,690	5,230	8,770	6,380	601	664	5,870
29	892	17,100	8,430	9,690	-----	1,170	1,740	5,740	6,120	655	754	4,970
30	2,670	16,000	8,590	7,670	-----	1,220	5,230	3,440	6,250	2,090	1,690	1,690
31	13,600	-----	8,910	6,560	-----	880	-----	2,090	-----	1,220	4,460	-----
TOTAL	118,592	295,510	387,250	222,670	123,460	100,070	127,202	200,484	453,630	84,335	25,541	91,548
MEAN	3,826	9,850	12,490	7,183	4,409	3,228	4,240	6,467	15,120	2,720	824	3,052
MAX	13,600	27,000	34,000	19,500	8,220	8,220	34,700	28,300	56,500	6,000	4,460	6,560
MIN	840	1,850	5,390	1,550	1,090	880	619	754	1,530	601	340	682
AC-FT	235,200	586,100	768,100	441,700	244,900	198,500	252,300	397,700	899,800	167,300	50,660	181,600
CAL YR 1973	TOTAL 2,883,433		MEAN 7,900		MAX 53,700		MIN 642		AC-FT 5,719,000			
WTR YR 1974	TOTAL 2,230,292		MEAN 6,110		MAX 56,500		MIN 340		AC-FT 4,424,000			

07360500 Lake Greeson near Murfreesboro, Ark.

LOCATION.--Lat 34°08'55", long 93°42'55", in NW¼ sec.18, T.7 S., R.25 W., Pike County, at Narrows Dam on Little Missouri River, 6.5 mi (10.5 km) northwest of Murfreesboro, 9.7 mi (15.6 km) upstream from Muddy Fork, and at mile 105.5 (169.7 km).

DRAINAGE AREA.--237 mi² (614 km²).

PERIOD OF RECORD.--November 1949 to current year. Prior to October 1951, published as Narrows Reservoir near Murfreesboro.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Jan. 15, 1950, nonrecording gage at site 700 ft (213 m) upstream at present datum. Jan. 15 to July 10, 1950, nonrecording gage and July 11 to Oct. 2, 1950, automatic Selsyn Repeater gage, at present site and datum.

EXTREMES.--Current year: Maximum contents, 377,000 acre-ft (465 hm³) June 11, elevation, 559.76 ft (170.615 m); minimum, 191,200 acre-ft (236 hm³) Oct. 11, elevation, 533.87 ft (162.724 m).

Period of record: Maximum contents, 423,800 acre-ft (523 hm³) May 18, 19, 1968, elevation, 564.60 ft (172.090 m); minimum since top of power pool was first reached, 160,000 acre-ft (197 hm³) Dec. 24, 1963, elevation, 527.62 ft (160.819 m).

REMARKS.--Lake is formed by concrete-gravity dam. Outlet works consists of a flood-control section containing two regulated outlets, a power intake section containing three 10-ft (3 m) diameter penstocks, and an uncontrolled overflow spillway section. Storage began Nov. 30, 1949, and bottom of power pool was first reached Feb. 1, 1950. Capacity between elevations 548.0 ft (167.03 m) and 563.0 ft (171.60 m) is 128,200 acre-ft (158 hm³) and is reserved for flood-control storage. Lake is used for flood-control, power-development, and recreational purposes. Figures given herein represent total contents. Water-quality records for the current year are published in Part 2 of this report. Data regarding dam and lake are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of spillway crest.....	563.0 (171.60 m)	407,900 (503 hm ³)
Top of designated power pool.....	548.0 (167.03 m)	279,700 (345 hm ³)
Top of conservation pool and bottom of designated power pool.....	504.0 (153.62 m)	77,600 (95.7 hm ³)
Bottom of lowest outlet.....	436.9 (133.17 m)	--

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

533 (162.5 m)	186.6 (230 hm ³)	552 (168.2 m)	310.0 (382 hm ³)
538 (164.0 m)	214.3 (264 hm ³)	556 (169.5 m)	343.1 (423 hm ³)
543 (165.5 m)	245.2 (302 hm ³)	560 (170.7 m)	379.2 (468 hm ³)
548 (167.0 m)	279.7 (345 hm ³)		

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201,900	236,000	275,000	271,700	271,900	251,200	262,900	273,000	272,700	292,500	236,900	230,100
2	201,000	238,300	273,100	270,000	269,600	250,600	263,100	271,500	274,300	287,100	236,000	230,900
3	198,900	239,900	270,700	266,100	267,800	251,000	263,300	269,000	275,300	281,900	235,900	232,700
4	196,500	241,000	283,100	263,100	265,300	251,200	263,600	268,600	275,700	278,800	235,900	233,400
5	196,600	243,900	289,000	260,400	264,400	249,200	263,600	268,400	277,300	278,700	235,700	233,900
6	196,600	243,300	290,600	260,300	264,900	247,900	263,600	268,900	281,500	277,800	235,700	234,100
7	196,900	242,500	290,500	260,500	265,100	246,400	263,700	269,300	284,500	276,500	235,500	234,300
8	197,000	240,300	286,900	258,100	261,800	245,700	264,000	269,700	312,900	276,500	235,200	234,400
9	195,300	235,000	282,800	256,500	258,900	244,900	264,000	268,800	368,600	274,200	235,100	234,600
10	195,300	235,700	279,200	256,700	258,800	245,100	264,000	266,100	375,300	271,500	235,300	235,300
11	192,400	233,600	276,200	266,400	259,200	248,600	264,100	266,500	376,900	268,600	235,700	236,800
12	191,500	233,900	273,100	270,000	259,300	255,900	264,300	266,500	377,000	266,300	235,700	238,000
13	204,100	232,500	270,800	270,700	258,400	257,200	264,700	266,700	373,700	264,200	236,300	240,700
14	216,500	232,200	268,100	270,000	258,100	257,700	265,400	264,200	369,500	262,900	235,900	240,900
15	219,800	230,600	265,800	267,900	257,800	258,900	265,500	264,500	365,300	262,900	235,900	242,000
16	222,400	230,200	266,200	266,000	257,000	259,800	265,700	265,600	362,300	263,000	235,900	242,500
17	224,200	229,900	266,100	266,100	257,200	260,400	265,400	266,300	358,600	262,800	235,000	240,500
18	225,400	230,100	264,000	267,000	257,500	260,900	265,000	265,600	357,200	260,700	233,200	240,900
19	226,400	233,100	262,900	267,100	257,500	261,500	264,200	264,800	352,800	256,700	233,200	240,300
20	227,000	234,100	261,500	268,500	257,200	261,600	263,000	265,000	348,300	253,000	231,700	238,200
21	227,500	236,000	259,600	269,800	257,100	262,800	263,600	263,000	343,600	249,400	230,800	235,700
22	227,900	238,700	259,400	271,000	257,900	263,100	280,900	263,100	338,800	245,500	228,900	235,800
23	228,200	240,300	260,100	271,400	257,200	263,600	291,000	262,900	333,800	241,500	228,000	236,000
24	228,400	249,500	264,100	269,000	257,000	264,000	292,300	261,800	328,700	238,900	226,500	235,000
25	227,900	257,900	267,900	266,800	257,500	264,200	290,400	261,000	323,600	236,900	226,000	237,800
26	225,300	266,600	270,100	265,200	254,400	261,300	286,500	263,700	318,500	238,900	225,900	239,900
27	222,500	272,900	271,200	266,200	252,700	261,600	282,200	265,700	313,400	237,100	225,900	240,500
28	222,900	276,700	270,400	269,200	251,000	261,800	278,700	266,700	308,200	237,100	224,700	240,100
29	222,900	277,500	270,900	271,400	-----	262,300	277,700	267,000	303,000	237,000	226,800	238,400
30	219,900	277,100	271,700	271,800	-----	262,500	275,400	265,400	297,700	237,100	227,400	238,900
31	229,900	-----	272,400	272,600	-----	262,700	-----	264,400	-----	237,200	228,400	-----
MAX	229,900	277,500	290,600	272,600	271,900	264,200	292,300	273,000	377,000	292,500	236,900	242,500
MIN	191,500	229,900	259,400	256,500	251,000	244,900	262,900	261,000	272,700	237,000	224,700	230,100
(†)	541.35	547.31	546.86	546.85	543.93	545.61	547.05	546.88	549.96	541.71	540.55	541.93
(‡)	+32,700	+40,100	-3,200	-100	-20,000	+11,400	+10,100	-12,000	+22,500	-57,300	-7,300	+8,800

CAL YR 1973.....‡ +26,100
WTR YR 1974.....‡ +36,500

† ELEVATION, IN FEET, AT 2400, AT END OF MONTH.
‡ CHANGE IN CONTENTS, IN ACRE-FEET.

07360501 Little Missouri River at Narrows Dam, near Murfreesboro, Ark.

LOCATION.--Lat 34°08'51", long 93°43'04", in NW¼ sec.18, T.7 S., R.25 W., Pike County, in powerhouse at Narrows dam, 6.5 mi (10.5 km) northwest of Murfreesboro, 9.5 mi (15.3 km) upstream from Muddy Fork Creek, and at mile 105.5 (169.7 km).

DRAINAGE AREA.--237 mi² (614 km²).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. January 1946 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to June 18, 1947, water-stage recorder at damsite and June 18, 1947, to Dec. 21, 1951, water-stage recorder at site 2,700 ft (823 m) downstream, both at datum 400.81 ft (122.167 m) above mean sea level.

AVERAGE DISCHARGE.--28 years (1947-74), 407 ft³/s (11.5 m³/s), 294,900 acre-ft/yr (364 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 2,580 ft³/s (73.1 m³/s) July 1; minimum daily, 15 ft³/s (0.42 m³/s) at times.

Period of record: Maximum daily discharge since power generation began May 27, 1950, 5,210 ft³/s (148 m³/s) June 2, 1957; minimum daily, 10 ft³/s (0.28 m³/s) at times, estimated leakage.

REMARKS.--Discharge computed from flowmeter and estimated leakage. Leakage was not included in published flows prior to Jan. 1, 1954. Flow completely regulated by Lake Greeson since Nov. 30, 1949. (See station 07360500). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	525	131	1,500	789	1,510	754	15	1,070	71	2,580	463	15
2	1,050	15	1,400	1,860	1,360	15	15	1,440	15	2,570	15	15
3	1,120	278	1,580	1,940	1,370	15	15	378	112	2,390	15	15
4	43	15	775	1,380	937	1,260	15	769	281	15	15	15
5	15	703	808	595	15	809	15	15	389	429	15	15
6	15	1,070	928	15	105	864	15	15	1,690	633	15	15
7	15	1,540	1,660	1,290	1,630	544	15	15	1,780	15	195	15
8	847	1,450	2,510	1,130	1,750	554	15	523	388	1,220	15	15
9	15	1,380	2,520	401	202	15	15	1,510	936	1,330	15	221
10	1,340	1,270	2,160	802	15	15	76	57	941	1,450	15	727
11	758	15	1,770	684	15	198	491	15	946	1,100	15	844
12	15	903	1,580	902	636	608	15	15	1,660	1,080	284	15
13	15	378	1,410	1,110	302	509	15	1,230	2,490	625	269	858
14	15	951	1,470	1,740	347	15	15	950	2,490	15	15	15
15	15	298	15	1,610	554	15	15	15	2,490	15	176	109
16	15	271	15	473	15	15	270	15	2,500	400	489	1,600
17	15	344	1,230	15	15	15	224	624	1,660	904	819	240
18	15	15	824	468	489	15	535	548	1,960	1,940	15	649
19	15	563	1,410	15	567	112	686	15	2,450	1,940	889	1,360
20	15	233	1,370	15	457	15	15	1,180	2,460	1,680	433	1,370
21	15	15	595	15	601	15	614	15	2,480	1,420	923	66
22	15	15	15	347	1,220	15	1,530	190	2,500	2,210	480	15
23	15	204	15	1,620	846	15	928	571	2,490	1,890	693	555
24	409	164	15	1,550	15	15	1,010	462	2,490	15	284	438
25	1,360	254	15	1,220	1,780	1,430	2,570	15	2,490	15	15	1,590
26	1,540	1,010	230	142	1,240	196	2,520	15	2,500	863	15	972
27	15	905	1,040	15	1,180	15	2,530	15	2,520	15	43	951
28	15	841	234	687	15	15	940	171	2,560	15	15	1,320
29	1,600	927	15	901	-----	15	1,630	1,010	2,550	15	15	15
30	334	1,850	15	390	-----	15	1,400	677	2,560	15	15	493
31	15	-----	589	1,040	-----	15	-----	193	-----	85	15	-----
TOTAL	11,211	18,008	29,713	25,161	19,188	8,123	18,164	13,733	52,849	28,889	6,695	14,543
MEAN	362	600	958	812	685	262	605	443	1,762	932	216	485
MAX	1,600	1,850	2,520	1,940	1,780	1,430	2,570	1,510	2,560	2,580	923	1,600
MIN	15	15	15	15	15	15	15	15	15	15	15	15
AC-FT	22,240	35,720	58,940	49,910	38,060	16,110	36,030	27,240	104,800	57,300	13,280	28,850

CAL YR 1973 TOTAL 304,982 MEAN 836 MAX 2,600 MIN 15 AC-FT 604,900

WTR YR 1974 TOTAL 246,277 MEAN 675 MAX 2,580 MIN 15 AC-FT 488,500

07361000 Little Missouri River near Murfreesboro, Ark.

LOCATION.--Lat 34°02'55", long 93°43'12", in NE¼NE¼ sec.24, T.8 S., R.26 W., Pike County, near right bank on downstream side of bridge on State Highway 27, 1.8 mi (2.9 km) downstream from Muddy Fork Creek, 2.0 mi (3.2 km) southwest of Murfreesboro, 4.6 mi (7.4 km) upstream from Prairie Creek, 11.4 mi (18.3 km) downstream from Lake Greeson, and at mile 94.1 (151.4 km).

DRAINAGE AREA.--380 mi² (984 km²).

PERIOD OF RECORD.--October and November 1927 and January 1928 (fragmentary), February 1928 to September 1931, July 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 324.28 ft (98.841 m) above mean sea level. Prior to Sept. 30, 1931, nonrecording gage at site 100 ft (30 m) upstream at present datum. July 10, 1937, to Nov. 10, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--40 years (1928-31, 1937-74), 623 ft³/s (17.6 m³/s), 451,400 acre-ft/yr (557 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 31,900 ft³/s (903 m³/s) June 8, gage height, 16.32 ft (4.974 m); minimum daily, 18 ft³/s (0.51 m³/s) Aug. 27.
Period of record: Maximum discharge, 120,000 ft³/s (3,400 m³/s) Mar. 30, 1945, gage height, 19.84 ft (6.047 m), from rating curve extended above 38,000 ft³/s (1,080 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 2.9 ft³/s (0.082 m³/s) Sept. 1, 1943.
Flood in April 1927 reached a stage of about 21 ft (6.4 m) from information by State Highway Department.

REMARKS.--Records good. Some regulation by Lake Greeson 11.4 mi (18.3 km) upstream since November 1949 (see station 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1007: 1938, 1941.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	1,020	1,300	788	1,320	628	58	1,120	1,580	2,980	190	100
2	962	651	2,000	1,690	1,870	120	47	1,210	352	2,970	204	308
3	1,060	510	5,500	2,170	1,320	90	44	888	250	2,960	35	250
4	510	1,830	11,000	1,710	1,450	770	40	790	145	595	30	100
5	81	1,450	1,850	878	198	744	35	402	985	215	25	65
6	58	1,790	1,400	218	198	822	30	132	2,170	660	22	50
7	77	1,170	2,200	1,020	1,050	725	31	100	6,700	145	20	42
8	500	1,880	3,000	1,240	1,740	430	32	198	14,400	512	120	35
9	302	1,580	1,700	375	725	100	25	1,180	6,080	1,320	30	198
10	734	1,620	1,400	1,920	110	58	41	430	2,620	1,490	25	660
11	1,220	595	900	2,620	80	1,120	215	90	1,740	1,050	35	1,960
12	364	761	650	1,660	215	1,240	162	72	2,040	1,210	120	595
13	4,850	540	900	1,450	568	485	100	512	3,090	595	180	1,360
14	1,300	1,050	600	2,130	268	485	72	836	1,830	308	94	458
15	684	460	400	2,040	375	180	50	822	3,090	42	80	215
16	1,060	300	300	1,080	145	132	120	180	4,000	35	215	1,180
17	635	350	500	285	65	110	162	250	3,000	512	458	1,400
18	422	600	1,110	375	308	90	180	458	1,870	2,040	285	540
19	322	1,300	1,610	725	628	120	568	285	3,090	2,080	145	1,530
20	266	1,500	1,970	660	485	100	232	512	3,010	1,830	758	1,700
21	235	2,000	1,060	402	330	232	50	285	3,030	1,400	568	568
22	182	1,000	314	540	2,170	132	6,700	120	3,020	2,420	540	120
23	153	3,000	274	1,240	1,020	80	1,830	308	3,010	2,080	458	352
24	176	4,500	1,840	1,790	285	90	1,210	330	2,990	660	375	215
25	1,280	3,500	750	1,580	1,020	595	2,690	110	2,990	65	145	3,690
26	2,130	5,500	673	628	1,830	660	2,730	90	2,970	120	27	2,260
27	372	4,000	938	402	1,120	80	2,690	110	2,970	595	18	1,450
28	200	3,000	822	2,130	215	72	1,150	120	3,000	58	35	1,530
29	1,190	2,500	310	1,740	-----	90	1,660	352	2,980	36	50	628
30	590	3,100	252	855	-----	72	1,450	985	2,970	38	65	430
31	4,680	-----	302	2,340	-----	58	-----	1,150	-----	50	110	-----
TOTAL	26,743	53,057	47,825	38,681	21,108	10,710	24,404	14,427	91,972	31,071	5,462	23,989
MEAN	863	1,769	1,543	1,248	754	345	813	465	3,066	1,002	176	800
MAX	4,850	5,500	11,000	2,620	2,170	1,240	6,700	1,210	14,400	2,980	758	3,690
MIN	58	300	252	218	65	58	25	72	145	35	18	35
AC-FT	53,040	105,200	94,860	76,720	41,870	21,240	48,410	28,620	182,400	61,630	10,830	47,580

CAL YR 1973 TOTAL 507,686 MEAN 1,391 MAX 11,000 MIN 13 AC-FT 1,007,000
WTR YR 1974 TOTAL 389,449 MEAN 1,067 MAX 14,400 MIN 18 AC-FT 772,500

07361500 Antoine River at Antoine, Ark.

LOCATION.--Lat 34°02'20", long 93°25'05", in NW¼NW¼ sec.24, T.8 S., R.23 W., Pike County, near right bank on downstream side of bridge on State Highway 26 at Antoine, 1.6 mi (2.6 km) downstream from Brushy Creek, 1.9 mi (3.1 km) downstream from Suck Creek, and at mile 8.5 (13.7 km).

DRAINAGE AREA.--181 mi² (469 km²).

PERIOD OF RECORD.--October 1954 to current year. Gage-height records collected in this vicinity since November 1950 (published as "Antoine Creek") are contained in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 229.33 ft (69.900 m) above mean sea level. Prior to Oct. 22, 1954, at site 75 ft (23 m) upstream at present datum.

AVERAGE DISCHARGE.--20 years, 259 ft³/s (7.33 m³/s), 19.43 in/yr (494 mm/yr), 187,600 acre-ft/yr (231 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 16,800 ft³/s (476 m³/s) June 8, gage height, 24.05 ft (7.330 m); minimum, 1.9 ft³/s (0.054 m³/s) Aug. 10, gage height, 2.79 ft (0.850 m).

Period of record: Maximum discharge, 85,500 ft³/s (1,005 m³/s) May 2, 1958, gage height, 28.75 ft (8.763 m); no flow at times in 1956, 1964, 1969, 1972.

Flood in 1905 reached a stage of 29.7 ft (9.05 m), from information by State Highway Department, discharge, 40,000 ft³/s (1,133 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1511: 1955(M). WRD Ark. 1973: 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	1,270	625	258	435	224	114	172	1,580	30	6.7	283
2	34	733	529	232	396	204	105	178	569	26	6.4	192
3	27	541	2,460	228	338	186	98	153	370	22	5.1	199
4	23	1,160	10,800	218	281	161	90	250	274	19	3.7	122
5	21	1,230	1,740	208	258	141	81	251	452	17	3.4	69
6	19	726	966	209	245	130	74	169	729	15	3.0	46
7	18	589	703	218	224	117	70	120	7,780	13	2.8	35
8	19	513	577	186	195	104	68	93	11,200	12	2.7	27
9	20	439	486	210	171	94	67	78	7,940	15	2.7	65
10	21	363	403	1,660	152	90	64	73	1,910	12	15	113
11	22	315	341	2,850	136	1,600	72	100	910	13	9.9	280
12	27	287	312	1,040	125	1,040	217	89	646	15	6.5	277
13	3,890	265	284	712	117	623	187	68	548	13	5.3	374
14	1,630	248	245	594	117	485	125	54	429	11	7.9	436
15	714	235	222	507	208	404	96	670	401	9.3	4.2	298
16	1,440	216	194	433	144	340	81	301	3,590	9.4	3.4	223
17	910	197	169	388	117	281	71	213	869	8.3	3.6	250
18	601	735	157	352	136	253	66	147	623	7.0	3.5	228
19	459	814	499	501	402	240	62	103	504	6.0	3.3	161
20	365	1,260	754	613	270	220	58	80	382	5.2	3.7	107
21	301	1,450	477	501	488	321	71	67	302	4.3	3.5	93
22	257	786	410	437	725	258	5,980	60	243	3.7	2.7	88
23	229	4,060	379	404	514	217	1,550	55	189	3.2	2.2	59
24	207	4,360	1,520	348	418	197	735	48	107	4.9	2.6	44
25	188	2,480	916	308	334	171	511	42	89	4.3	3.4	1,610
26	170	4,920	667	362	294	161	395	936	70	3.9	3.0	1,040
27	166	4,060	531	437	264	152	315	504	58	3.2	2.9	610
28	207	2,050	439	1,680	245	150	258	308	49	2.8	2.8	450
29	179	1,060	395	884	-----	191	212	225	41	3.1	3.9	337
30	155	781	340	642	-----	158	177	169	35	7.5	138	257
31	4,070	-----	304	521	-----	127	-----	792	-----	7.5	363	-----
TOTAL	16,434	38,143	28,844	18,141	7,749	9,040	12,070	6,568	42,889	326.6	630.8	8,373
MEAN	530	1,271	930	585	277	292	402	212	1,430	10.5	20.3	279
MAX	4,070	4,920	10,800	2,850	725	1,600	5,980	936	11,200	30	363	1,610
MIN	18	197	157	186	117	90	58	42	35	2.8	2.2	27
CFSM	2.93	7.02	5.14	3.23	1.53	1.61	2.22	1.17	7.90	.06	.11	1.54
IN.	3.38	7.84	5.93	3.73	1.59	1.86	2.48	1.35	8.81	.07	.13	1.72
AC-FT	32,600	75,660	57,210	35,980	15,370	17,930	23,940	13,030	85,070	648	1,250	16,610
CAL YR 1973	TOTAL	223,693.8	MEAN	613	MAX	10,800	MIN	1.9	CFSM	3.39	IN	45.97
WTR YR 1974	TOTAL	189,208.4	MEAN	518	MAX	11,200	MIN	2.2	CFSM	2.86	IN	38.89
AC-FT												443,700
AC-FT												375,300

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
10-13	1530	18.75	6,600	12- 4	0100	24.02	16,700
10-31	1130	18.91	7,090	4-22	1100	20.62	8,860
11-23	2000	21.74	11,400	6- 8	1300	24.05	16,800
11-26	1500	19.76	8,040				

07361600 Little Missouri River near Boughton, Ark.

LOCATION.--Lat 33°52'32", long 93°18'16", in NE¼ sec.13, T.10 S., R.22 W., Nevada County, on downstream side of bridge on U.S. Highway 67, 1.5 mi (2.4 km) northeast of Boughton, 5.9 mi (9.5 km) downstream from Howard Creek 10.2 mi (16.4 km) downstream from Antoine River, and at mile 46.8 (75.3 km).

DRAINAGE AREA.--1,068 mi² (2,766 km²).

PERIOD OF RECORD.--October 1965 to current year in reports of Geological Survey. October 1937 to September 1942 and October 1945 to date in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 182.13 ft (55.513 m) above mean sea level. Prior to Mar. 19, 1947, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--34 years (1937-42, 1945-74), 1,515 ft³/s (42.9 m³/s), 1,098,000 acre-ft/yr (1,350 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 45,500 ft³/s (1,290 m³/s) June 9, gage height, 22.60 ft (6.888 m); minimum, 39 ft³/s (1.10 m³/s) Aug. 8, gage height, 2.60 ft (0.792 m).
Period of record: Maximum discharge, 66,000 ft³/s (1,870 m³/s) May 3, 1958; maximum gage height, 23.29 ft (7.099 m) May 15, 1968; minimum discharge, 10 ft³/s (0.28 m³/s) Sept. 20-30, 1939.
Maximum stage since at least 1905, 27.2 ft (8.29 m) Mar. 31, 1945, discharge, 111,000 ft³/s (3,140 m³/s), from rating curve extended above 62,000 ft³/s (1,760 m³/s), from records of Corps of Engineers.

REMARKS.--Some regulation by Lake Greeson, 58.7 mi (94.4 km) upstream, since November 1949 (see station 07360500).

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WRD Ark. 1968: 1966-67.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	329	9,550	4,420	1,280	2,530	970	368	2,050	3,310	2,830	111	4,330
2	272	6,380	3,820	1,570	2,710	1,370	316	1,750	2,710	2,840	196	4,660
3	990	2,620	3,900	2,470	2,890	745	995	1,810	1,040	2,840	368	4,270
4	1,260	2,360	20,000	2,890	2,530	590	236	1,370	670	2,770	127	2,710
5	742	6,950	35,000	2,530	2,170	1,420	205	1,630	695	945	83	970
6	218	7,520	17,400	1,810	1,070	1,320	184	1,100	2,350	465	61	560
7	168	5,780	6,280	1,320	945	1,370	169	590	4,030	820	51	388
8	150	4,200	4,000	2,050	1,930	1,140	163	412	21,500	495	39	304
9	391	3,450	4,650	2,230	2,410	920	158	495	45,500	845	135	1,040
10	550	2,850	4,350	3,070	1,220	545	155	1,520	33,400	1,520	117	2,080
11	770	2,620	3,750	9,690	670	795	158	845	14,800	1,630	304	2,020
12	1,480	1,430	3,220	12,500	555	3,970	720	396	6,090	1,370	172	3,070
13	2,260	1,540	3,220	7,440	795	2,590	895	304	3,670	1,420	140	3,490
14	9,420	1,260	2,550	3,790	1,020	1,690	545	845	3,910	870	348	4,730
15	11,900	1,650	2,550	3,910	895	1,320	392	1,630	3,670	550	284	3,850
16	6,380	1,130	1,320	3,610	1,170	870	272	1,370	5,490	169	115	1,930
17	5,550	852	852	2,590	795	720	288	595	8,440	121	296	2,650
18	3,750	908	1,600	1,690	600	590	376	630	4,800	670	670	3,190
19	2,090	2,700	2,360	2,290	1,750	530	392	870	3,550	1,930	500	2,110
20	1,350	2,480	5,620	4,270	1,990	525	745	595	3,610	2,050	332	2,410
21	1,040	4,950	5,700	3,550	1,370	625	545	870	3,310	1,870	765	2,530
22	852	3,300	3,300	2,350	3,910	870	4,270	620	3,190	1,570	770	2,110
23	649	3,600	1,820	2,110	3,850	645	13,300	256	3,070	2,320	695	1,200
24	506	17,800	4,650	2,710	2,740	505	10,800	490	3,010	2,290	645	1,100
25	440	29,900	7,520	2,890	1,370	430	3,730	565	2,950	1,070	485	4,030
26	1,430	20,000	4,800	2,770	2,170	1,220	3,550	795	2,890	252	300	10,100
27	2,090	18,600	2,920	2,710	2,410	1,040	3,370	1,170	2,890	380	113	11,600
28	1,040	19,500	2,550	4,030	1,990	430	3,250	670	2,840	695	73	6,320
29	517	11,900	2,140	6,690	-----	560	1,930	412	2,850	166	97	3,310
30	1,380	5,850	1,540	4,330	-----	670	2,110	795	2,840	113	260	1,810
31	3,680	-----	1,290	2,830	-----	475	-----	1,220	-----	111	3,010	-----
TOTAL	63,644	203,630	169,092	109,970	50,455	31,460	54,587	28,670	203,075	37,987	11,662	94,872
MEAN	2,053	6,788	5,455	3,547	1,802	1,015	1,820	925	6,769	1,225	376	3,162
MAX	11,900	29,900	35,000	12,500	3,910	3,970	13,300	2,050	45,500	2,840	3,010	11,600
MIN	150	852	852	1,280	555	430	155	256	670	111	39	304
AC-FT	126,200	403,900	335,400	218,100	100,100	62,400	108,300	56,870	402,800	75,350	23,130	188,200
CAL YR 1973	TOTAL	1,444,032	MEAN	3,956	MAX	43,600	MIN	42	AC-FT	2,864,000		
WTR YR 1974	TOTAL	1,059,104	MEAN	2,902	MAX	45,500	MIN	39	AC-FT	2,101,000		

07362000 Ouachita River at Camden, Ark.

NOTE.--Records for 1974 water year for the station listed above are not available in time for inclusion in this report. They will be published in a subsequent report.

07362100 Smackover Creek near Smackover, Ark.

LOCATION.--Lat 33°22'33", long 92°46'37", in NW¼SE¼ sec.32, T.15 S., R.16 W., Union County, near right bank on downstream side of bridge on State Highway 7, 0.1 mi (0.2 km) downstream from Camp Creek, 3.3 mi (5.3 km) northwest of Smackover, and at mile 23.0 (37.0 km).

DRAINAGE AREA.--377 mi² (976 km²).

PERIOD OF RECORD.--October 1961 to current year. Gage-height records collected and occasional discharge measurements made by Corps of Engineers at this site since September 1938. Daily stages 1940 to date and results of discharge measurements 1947 to 1960 are published in reports of Corps of Engineers.

AVERAGE DISCHARGE.--13 years, 380 ft³/s (10.8 m³/s), 13.69 in/yr (348 mm/yr), 275,300 acre-ft/yr (339 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 52,700 ft³/s (1,490 m³/s) June 8, gage height, 24.97 ft (7.611 m), from rating curve extended as explained below; minimum, 32 ft³/s (0.975 m³/s) Aug. 25-26, 27; minimum gage height, 2.88 ft (0.878 m) Aug. 26, 27.
Period of record: Maximum discharge, 52,700 ft³/s (1,490 m³/s) June 8, 1974, gage height, 24.97 ft (7.611 m), from rating curve extended above 31,000 ft³/s (878 m³/s); no flow for part of Aug. 9, 1964. Maximum stage since at least 1938, that of June 8, 1974.

REMARKS.--Records good. Water-quality records for Smackover Creek north of Smackover, 5 mi (8 km) downstream, for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ark. 1967: 1965.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	260	2,070	621	1,740	418	583	234	188	70	123	6,830
2	80	295	1,620	453	1,420	396	346	542	211	66	102	10,500
3	63	217	1,320	464	1,100	372	256	538	264	63	84	5,940
4	53	209	3,770	709	854	345	209	378	268	60	85	3,150
5	49	645	11,800	828	682	315	178	260	206	62	135	2,220
6	46	862	6,980	842	544	292	152	257	221	109	98	2,100
7	45	950	2,770	959	484	276	141	234	247	77	68	2,100
8	44	933	1,900	1,040	456	261	138	190	26,600	93	56	2,090
9	69	810	1,500	1,030	404	246	138	154	33,100	105	50	2,090
10	68	552	1,130	1,840	349	236	132	135	11,400	112	47	2,070
11	56	379	808	5,620	318	262	149	126	3,810	108	45	2,140
12	51	275	562	7,460	301	462	862	124	2,250	85	43	1,980
13	66	224	452	4,010	294	608	1,290	124	1,720	65	42	1,950
14	163	198	409	2,500	298	457	1,460	117	1,380	85	42	1,950
15	316	182	363	2,140	406	298	1,200	101	947	77	46	2,020
16	566	169	312	1,920	718	249	916	94	436	117	51	2,080
17	1,030	160	277	1,650	886	237	390	90	349	176	48	1,820
18	1,450	148	254	1,410	846	226	209	86	448	114	45	1,470
19	1,740	139	302	1,330	1,030	216	174	80	404	77	44	1,120
20	1,570	141	771	1,620	1,180	211	155	74	289	60	46	732
21	1,160	276	1,010	2,010	1,390	382	142	71	214	52	42	387
22	517	428	1,080	1,920	2,060	615	3,130	126	162	47	43	336
23	209	422	1,060	1,660	2,290	612	11,500	167	141	44	38	365
24	160	309	1,220	1,690	1,830	421	7,900	144	129	45	35	293
25	137	320	1,510	1,820	1,360	291	3,130	110	113	78	32	493
26	124	836	1,830	1,890	1,030	262	1,930	189	99	254	32	1,050
27	115	2,840	1,900	1,780	678	245	1,440	245	91	229	33	1,620
28	108	5,730	1,830	1,930	468	234	930	261	84	135	38	1,700
29	104	5,290	1,530	2,090	-----	403	417	228	79	103	49	1,430
30	101	3,250	1,170	2,250	-----	702	257	134	75	90	403	1,190
31	160	-----	868	2,060	-----	747	-----	114	-----	95	1,610	-----
TOTAL	10,521	27,449	54,378	59,546	25,416	11,297	39,854	5,727	85,925	2,953	3,655	65,216
MEAN	339	915	1,754	1,921	908	364	1,328	185	2,864	95.3	118	2,174
MAX	1,740	5,730	11,800	7,460	2,290	747	11,500	542	33,100	254	1,610	10,500
MIN	44	139	254	453	294	211	132	71	75	44	32	293
CFSM	.90	2.43	4.65	5.10	2.41	.97	3.52	.49	7.60	.25	.31	5.77
IN.	1.04	2.71	5.37	5.88	2.51	1.11	3.93	.57	8.48	.29	.36	6.44
AC-FT	20,870	54,450	107,900	118,100	50,410	22,410	79,050	11,360	170,400	5,860	7,250	129,400

CAL YR 1973	TOTAL 280,904	MEAN 770	MAX 11,800	MIN 21	CFSM 2.04	IN 27.72	AC-FT 557,200
WTR YR 1974	TOTAL 391,937	MEAN 1,074	MAX 33,100	MIN 32	CFSM 2.85	IN 38.67	AC-FT 777,400

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-28	0900	16.26	6,020	4-23	1400	19.13	13,700
12- 5	1100	18.86	12,700	6- 8	2100	24.97	52,700
1-12	0300	17.38	8,450	9- 2	0500	18.38	11,100

07362500 Moro Creek near Fordyce, Ark.

LOCATION.--Lat 33°47'32", long 92°19'30", in NW¼NW¼ sec.3, T.11 S., R.12 W., Calhoun-Cleveland County line, near center of stream on downstream side of bridge on State Highway 8, 1,100 ft (340 m) upstream from Caney Creek, 4.0 mi (6.4 km) southeast of Fordyce, 12.0 mi (19.3 km) upstream from White Water Creek, and at mile 38.2 (61.5 km).

DRAINAGE AREA.--216 mi² (559 km²).

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 160.63 ft (48.960 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 216 ft³/s (6.12 m³/s), 13.58 in/yr (345 mm/yr), 156,500 acre-ft/yr (193 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 11,200 ft³/s (317 m³/s) June 9, gage height, 14.30 ft (4.359 m); no flow at times.

Period of record: Maximum discharge, 26,800 ft³/s (759 m³/s) May 2, 1958, gage height, 16.47 ft (5.020 m); no flow at times each year.

Flood in January 1938 reached a stage of 15.1 ft (4.60 m), from information by State Highway Department, discharge, 15,800 ft³/s (447 m³/s).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	15	699	628	1,110	297	178	102	253	3.5	1.5	2,070
2	4.9	12	759	405	956	195	196	224	188	2.5	2.2	1,790
3	4.6	11	741	291	748	154	148	402	90	2.0	2.9	1,880
4	4.5	16	1,400	265	490	128	93	315	56	1.5	2.4	1,310
5	4.3	100	3,880	232	308	112	69	162	37	1.0	1.5	926
6	4.0	154	4,960	261	219	99	54	97	30	.90	1.1	662
7	4.4	174	2,930	390	178	85	43	71	58	.80	.81	419
8	4.5	175	1,830	423	158	76	35	54	2,690	.60	.69	212
9	4.5	137	1,230	494	139	68	29	40	6,060	.40	.64	186
10	7.2	89	976	2,120	123	62	26	32	8,360	.30	.54	170
11	7.4	58	724	4,140	108	60	30	25	3,660	.20	.48	88
12	7.4	40	439	5,790	93	66	296	21	2,230	.20	.49	100
13	7.8	30	262	4,140	82	83	425	18	1,390	.10	.47	314
14	9.3	23	171	2,610	77	157	486	15	1,020	.10	.50	472
15	11	19	127	1,950	81	241	504	16	745	0	1.0	393
16	45	13	107	1,370	220	264	502	18	431	0	.88	368
17	72	11	91	1,080	385	190	455	17	194	0	.65	379
18	78	11	82	872	447	116	322	14	96	0	1.8	399
19	78	12	87	752	696	85	162	14	68	0	6.6	345
20	50	12	174	815	846	71	84	12	52	0	2.6	186
21	27	23	233	839	1,110	140	58	9.8	42	0	1.1	88
22	17	33	245	759	1,660	195	510	12	36	0	.78	58
23	12	56	243	664	1,800	233	1,120	12	31	.50	.58	45
24	8.9	61	327	652	1,460	262	3,060	9.4	25	1.8	.43	41
25	7.9	76	498	643	1,220	246	2,710	8.4	19	4.3	.43	432
26	6.8	131	598	610	1,010	178	1,570	36	15	12	.50	877
27	6.8	439	741	724	790	117	1,060	97	11	12	.91	783
28	6.6	956	912	1,010	508	96	755	76	8.0	4.6	3.5	678
29	6.5	768	1,040	1,200	-----	253	398	45	6.0	2.8	.29	613
30	7.1	658	992	1,290	-----	192	172	30	4.5	1.9	.207	509
31	8.9	-----	839	1,210	-----	145	-----	48	-----	1.6	1,350	-----
TOTAL	529.5	4,313	28,337	38,629	17,022	4,666	15,550	2,052.6	27,905.5	55.60	1,623.98	16,793
MEAN	17.1	144	914	1,246	608	151	518	66.2	930	1.79	52.4	560
MAX	78	956	4,960	5,790	1,800	297	3,060	402	8,360	12	1,350	2,070
MIN	4.0	11	82	232	77	60	26	8.4	4.5	0	.43	41
CFSM	.08	.67	4.23	5.77	2.81	.70	2.40	.31	4.31	.008	.24	2.59
IN.	.09	.74	4.88	6.65	2.93	.80	2.68	.35	4.81	.009	.28	2.89
AC-FT	1,050	8,550	56,210	76,620	33,760	9,260	30,840	4,070	55,350	110	3,220	33,310

CAL YR 1973 TOTAL 163,145.80 MEAN 447 MAX 6,690 MIN 0 CFSM 2.07 IN 28.10 AC-FT 323,600
WTR YR 1974 TOTAL 157,477.18 MEAN 431 MAX 8,360 MIN 0 CFSM 2.00 IN 27.12 AC-FT 312,400

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
12-6	0100	12.97	5,790	4-24	1400	12.07	3,560
1-12	1400	13.10	6,230	6-9	23-2400	14.30	11,200

RED RIVER BASIN

07363000 Saline River at Benton, Ark.

LOCATION.--Lat 34°34'05", long 92°36'40", in SE¼NE¼ sec.9, T.2 S., R.15 W., Saline County, on left bank 0.8 mi (1.3 km) west of Benton, 3.0 mi (4.8 km) downstream from confluence of North Fork and Alum Fork, and at mile 198.1 (318.7 km).

DRAINAGE AREA.--569 mi² (1,474 km²).

PERIOD OF RECORD.--October 1950 to current year. Gage-height records collected at site 0.4 mi (0.6 km) downstream since July 1938 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 260.91 ft (79.525 m) above mean sea level. July 6, 1938, to July 29, 1948, and Feb. 14 to Mar. 24, 1950, nonrecording gage; July 30, 1948, to Feb. 13, 1950, and Mar. 25, 1950, to July 13, 1951, water-stage recorder; all at site 0.4 mi (0.6 km) downstream at datum 3.00 ft (0.914 m) lower.

AVERAGE DISCHARGE.--24 years, 775 ft³/s (21.9 m³/s), 561,500 acre-ft/yr (692 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 62,400 ft³/s (1,770 m³/s) Apr. 22, gage height, 26.14 ft (7.967 m); minimum, 41 ft³/s (1.161 m³/s) Aug. 8, gage height, 3.37 ft (1.027 m).

Period of record: Maximum discharge, 100,000 ft³/s (2,830 m³/s) Jan. 30, 1969, gage height, 29.68 ft (9.046 m); no flow July 23-25, 27-30, Aug. 11-13, 1954.

Flood of April 1927 reached a stage of about 32.0 ft (9.75 m), former site and datum (from information by State Highway Department), or about 30.5 ft (9.30 m), present site and datum, discharge, about 110,000 ft³/s (3,120 m³/s).

REMARKS.--Records good. Little Rock diverts about 35 ft³/s (0.991 m³/s) from Lake Winona on Alum Fork for municipal use and discharges sewage effluent into Arkansas River. Benton diverts about 2.7 ft³/s (0.076 m³/s) for municipal use just above station. At times low flow is augmented by releases from Lake Norrell. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ark. 1973: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	266	2,350	1,430	641	1,140	571	255	451	10,300	119	83	306
2	196	1,190	1,120	551	957	524	238	428	2,860	110	76	479
3	158	782	1,510	516	808	485	241	480	1,410	102	72	892
4	134	648	28,700	485	659	442	293	1,460	1,010	95	66	608
5	117	795	12,000	469	572	404	292	3,190	2,610	93	59	349
6	107	658	2,810	478	520	375	245	1,340	4,570	85	53	241
7	108	533	1,740	500	477	356	226	817	26,500	93	50	187
8	112	472	1,300	456	434	334	241	571	36,000	95	48	151
9	116	417	1,060	598	393	317	235	437	13,700	88	47	154
10	105	372	883	3,330	364	299	207	354	7,440	85	57	168
11	113	332	757	10,700	340	1,660	225	309	2,620	77	69	202
12	150	296	646	4,240	321	2,670	936	279	1,580	70	64	289
13	1,780	275	576	2,060	308	1,540	826	245	1,170	65	69	320
14	7,440	256	525	1,530	307	1,060	551	230	887	61	71	482
15	2,490	242	483	1,240	375	824	424	3,720	675	59	75	514
16	1,440	230	425	1,030	900	679	349	5,430	555	57	108	345
17	1,220	220	379	891	803	574	309	1,670	480	67	350	266
18	844	1,750	357	789	627	499	272	1,040	518	104	210	226
19	617	2,210	502	745	1,610	445	247	702	562	87	171	207
20	492	1,750	2,000	1,070	1,220	417	224	522	418	70	142	179
21	406	5,520	1,500	1,240	2,170	587	3,420	423	338	62	224	194
22	344	2,700	1,060	972	4,410	568	48,500	793	287	56	182	212
23	298	3,760	873	904	2,290	478	12,300	793	246	50	129	208
24	262	23,900	2,430	812	1,510	416	2,590	515	219	48	99	172
25	229	10,500	3,320	688	1,120	372	1,550	396	195	65	86	193
26	210	15,800	2,080	696	874	348	1,130	1,500	173	377	72	330
27	208	10,100	1,630	1,080	722	327	879	1,610	161	229	72	393
28	234	6,890	1,250	5,140	632	314	699	894	149	208	72	316
29	240	3,030	1,030	3,860	-----	306	591	604	137	138	84	251
30	229	1,930	885	1,990	-----	295	512	473	128	108	111	208
31	1,520	-----	759	1,450	-----	268	-----	3,560	-----	93	196	-----
TOTAL	22,185	99,908	76,020	51,151	26,863	18,754	79,007	35,236	117,898	3,116	3,267	9,042
MEAN	716	3,330	2,452	1,650	959	605	2,634	1,137	3,930	101	105	301
MAX	7,440	23,900	28,700	10,700	4,410	2,670	48,500	5,430	36,000	377	350	892
MIN	105	220	357	456	307	268	207	230	128	48	47	151
AC-FT	44,000	198,200	150,800	101,500	53,280	37,200	156,700	69,890	233,900	6,180	6,480	17,930

CAL YR 1973 TOTAL 639,351 MEAN 1,752 MAX 30,500 MIN 44 AC-FT 1,268,000
WTR YR 1974 TOTAL 542,447 MEAN 1,486 MAX 48,500 MIN 47 AC-FT 1,076,000

PEAK DISCHARGE (BASE, 14,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-24	0915	21.34	29,800	4-22	1145	26.14	62,400
12- 4	1315	22.59	36,500	6- 8	0115	25.11	53,900

07363200 Saline River near Sheridan, Ark.

LOCATION.--Lat 34°06'56", long 92°24'21", in NE¼NW¼ sec.15, T.7 S., R.13 W., Grant County, on downstream side of bridge on U.S. Highway 167, 1.0 mi (1.6 km) upstream from Gamble Creek, 1.6 mi (2.6 km) upstream from Hurricane Creek, 13.5 mi (21.7 km) south of Sheridan, and at mile 131.4 (211.4 km).

DRAINAGE AREA.--1,129 mi² (2,924 km²).

PERIOD OF RECORD.--October 1970 to current year. Gage-height records since September 1938 are contained in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 152.86 ft (46.592 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 59,600 ft³/s (1,690 m³/s) June 10, gage height, 21.36 ft (6.511 m); minimum, 86 ft³/s (2.44 m³/s) Aug. 10, gage height, 2.33 ft (0.710 m).
 Period of record: Maximum discharge, 59,600 ft³/s (1,690 m³/s) June 10, 1974, gage height, 21.36 ft (6.511 m); minimum, 13 ft³/s (0.37 m³/s) Aug. 28, 1972, gage height, 1.74 ft (0.530 m).
 Maximum stage since at least 1938, 22.42 ft (6.834 m) Feb. 1, 1969, from records of Corps of Engineers, discharge, 71,000 ft³/s (2,010 m³/s) computed by Geological Survey.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	986	13,400	3,430	5,630	2,920	1,000	2,000	2,510	297	277	1,170
2	450	1,800	9,340	2,470	5,310	1,960	784	1,250	2,000	275	237	986
3	440	2,300	6,950	1,780	4,560	1,490	669	979	2,330	258	225	945
4	356	2,720	8,370	1,460	3,840	1,270	581	862	2,920	239	205	1,100
5	305	3,160	9,460	1,310	2,900	1,140	520	813	4,590	226	172	1,250
6	271	3,250	18,200	1,280	2,030	1,040	498	1,160	5,730	208	154	1,150
7	250	3,100	25,600	1,500	1,530	958	507	1,910	5,880	276	139	793
8	237	2,770	16,400	2,200	1,300	897	487	2,230	11,900	231	122	522
9	234	2,220	9,540	3,100	1,140	836	456	2,030	32,200	188	96	407
10	241	1,590	6,290	4,300	1,030	777	454	1,250	55,800	179	88	392
11	235	1,170	4,920	5,600	943	965	478	815	35,200	176	92	415
12	230	926	4,200	7,200	875	1,640	915	655	20,400	164	105	411
13	291	758	3,390	9,200	822	2,260	1,470	562	13,900	154	108	405
14	571	642	2,390	11,000	798	2,740	1,960	495	9,480	145	112	595
15	1,330	564	1,660	9,400	887	3,150	2,120	534	6,550	140	130	659
16	2,070	520	1,320	7,400	1,270	3,370	1,820	1,500	4,980	130	135	671
17	2,500	489	1,090	5,800	1,700	2,830	1,300	2,560	3,940	125	133	746
18	3,130	463	951	4,400	2,110	1,820	864	3,740	2,600	130	129	663
19	3,830	599	879	3,500	2,660	1,260	655	6,240	1,650	140	192	531
20	3,610	1,470	1,100	3,000	3,030	1,020	565	6,000	1,440	130	328	447
21	2,300	2,190	1,710	2,900	3,470	1,060	503	4,720	1,440	120	292	395
22	1,130	2,640	2,290	3,100	4,170	1,370	1,850	3,460	1,280	115	260	367
23	733	3,190	2,670	3,300	4,460	1,640	3,540	1,710	993	110	218	367
24	584	4,100	3,150	3,400	4,780	1,600	24,100	1,140	737	100	239	396
25	495	6,850	3,510	2,800	5,600	1,370	32,300	1,170	595	96	214	520
26	435	11,200	3,660	2,200	5,460	1,090	17,100	1,370	498	127	171	873
27	389	23,400	4,050	1,900	4,720	915	9,250	2,300	437	157	150	926
28	357	27,500	4,750	2,100	3,980	838	6,050	3,070	410	340	130	830
29	350	27,800	5,090	2,500	-----	961	4,640	3,410	381	390	129	746
30	368	19,700	4,700	3,400	-----	1,280	3,500	3,520	335	344	160	665
31	486	-----	4,160	4,330	-----	1,240	-----	3,380	-----	334	559	-----
TOTAL	28,487	160,067	185,190	121,260	81,005	47,707	120,936	66,835	233,106	6,044	5,701	20,343
MEAN	919	5,336	5,974	3,912	2,893	1,539	4,031	2,156	7,770	195	184	678
MAX	3,830	27,800	25,600	11,000	5,630	3,370	32,300	6,240	55,800	390	559	1,250
MIN	230	463	879	1,280	798	777	454	495	335	96	88	367
CFSM	.81	4.73	5.29	3.47	2.56	1.36	3.57	1.91	6.88	.17	.16	.60
IN.	.94	5.27	6.10	4.00	2.67	1.57	3.98	2.20	7.68	.20	.19	.67
AC-FT	56,500	317,500	367,300	240,500	160,700	94,630	239,900	132,600	462,400	11,990	11,310	40,350
CAL YR 1973	TOTAL 1,291,288	MEAN 3,538	MAX 39,300	MIN 101	CFSM 3.13	IN 42.55	AC-FT 2,561,000					
WTR YR 1974	TOTAL 1,076,681	MEAN 2,950	MAX 55,800	MIN 88	CFSM 2.61	IN 35.48	AC-FT 2,136,000					

PEAK DISCHARGE (BASE, 14,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
11-29	0300	18.40	29,600	4-24	2200	19.61	40,700
12-7	0600	18.13	27,400	6-10	0700	21.36	59,600

07363300 Hurricane Creek near Sheridan, Ark.

LOCATION.--Lat 34°19'10", long 92°20'40", in NW¼NE¼ sec.6, T.5 S., R.12 W., Grant County, on downstream side of bridge on U.S. Highway 270, 2.8 mi (4.5 km) downstream from Simpson Creek, 3.5 mi (5.6 km) east of Sheridan, and at mile 16.9 (27.2 km).

DRAINAGE AREA.--204 mi² (528 km²).

PERIOD OF RECORD.--Occasional low-flow measurements 1957-61. October 1961 to current year. Gage-height records and results of discharge measurements 1960-63 are published in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 200.00 ft (60.960 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--13 years, 233 ft³/s (6.60 m³/s), 15.43 in/yr (392 mm/yr), 168,800 acre-ft/yr (208 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14,000 ft³/s (396 m³/s) June 9, gage height, 15.78 ft (4.810 m); minimum, 2.5 ft³/s (0.071 m³/s) Aug. 28, 29, gage height, 4.73 ft (1.442 m).

Period of record: Maximum discharge, 18,100 ft³/s (513 m³/s) Apr. 24, 1964, gage height, 15.93 ft (4.855 m); no flow at times in 1972.

Maximum stage since at least 1939, 18.55 ft (5.654 m) June 27, 1960, from floodmarks, discharge, 52,300 ft³/s (1,480 m³/s) by contracted-opening measurement.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ark. 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	405	1,330	271	800	231	125	106	154	19	22	35
2	13	561	874	215	482	212	99	105	511	16	16	30
3	10	367	590	183	364	197	88	108	626	15	13	57
4	8.7	210	5,090	191	282	181	77	94	258	13	9.4	140
5	8.2	498	5,060	206	218	168	65	86	157	13	7.7	72
6	12	711	2,970	232	197	171	63	88	445	12	6.4	38
7	14	439	1,700	451	201	172	58	76	1,750	10	5.6	28
8	18	242	1,150	610	199	157	59	63	8,700	10	6.0	23
9	29	206	697	620	169	140	76	48	8,730	10	6.9	19
10	26	186	455	1,210	150	127	73	40	3,380	10	6.9	17
11	23	145	352	4,170	135	199	69	36	2,020	11	7.3	20
12	20	115	283	3,210	123	746	487	33	1,420	9.2	9.2	19
13	28	97	254	2,070	119	964	1,100	31	864	8.2	10	18
14	236	89	235	1,420	123	594	782	31	457	9.4	10	19
15	490	82	206	970	245	280	328	378	248	16	11	24
16	505	79	176	767	656	206	183	1,150	169	17	9.7	24
17	270	80	158	596	1,000	181	131	753	136	18	8.9	21
18	183	116	147	480	1,030	162	104	249	108	19	12	19
19	126	616	146	460	1,110	142	85	128	126	19	13	19
20	89	1,170	423	740	1,380	132	77	81	182	19	16	19
21	64	1,450	805	982	1,280	219	67	60	131	20	12	21
22	55	1,420	711	916	1,890	584	1,650	54	90	14	8.4	27
23	44	1,370	410	629	1,990	442	8,460	75	67	8.2	6.6	39
24	39	3,730	468	436	1,480	250	3,680	72	50	6.0	5.6	27
25	34	3,560	1,080	370	922	196	1,890	53	38	5.6	4.7	22
26	32	3,580	1,340	337	512	159	1,060	156	34	30	3.7	31
27	29	4,990	1,270	498	314	140	412	585	30	160	3.5	59
28	28	5,130	1,120	982	261	134	223	353	26	96	3.3	38
29	32	2,780	736	1,770	-----	187	165	144	23	41	3.5	29
30	34	1,850	482	1,610	-----	225	126	87	22	25	7.3	24
31	91	-----	358	1,320	-----	170	-----	66	-----	21	33	-----
TOTAL	2,605.9	36,274	31,076	28,922	17,632	8,068	21,862	5,389	30,952	700.6	298.6	978
MEAN	84.1	1,209	1,002	933	630	260	729	174	1,032	22.6	9.63	32.6
MAX	505	5,130	5,090	4,170	1,990	964	8,460	1,150	8,730	160	33	140
MIN	8.2	79	146	183	119	127	58	31	22	5.6	3.3	17
CF5M	.41	5.93	4.91	4.57	3.09	1.27	3.57	.85	5.06	.11	.05	.16
1N.	.48	6.61	5.67	5.27	3.22	1.47	3.99	.98	5.64	.13	.05	.18
AC-FT	5,170	71,950	61,640	57,370	34,970	16,000	43,360	10,690	61,390	1,390	592	1,940
CAL YR 1973	TOTAL 221,371.5	MEAN 606	MAX 10,300	MIN 5.2	CF5M 2.97	1N 40.37	AC-FT 439,100					
WTR YR 1974	TOTAL 184,758.1	MEAN 506	MAX 8,730	MIN 3.3	CF5M 2.48	1N 33.69	AC-FT 366,500					

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-27	2200	14.90	6,800	4-23	0900	15.24	11,300
12-4	1800	15.35	9,300	6-9	0100	15.78	14,000
1-11	1400	14.47	5,080				

07363500 Saline River near Rye, Ark.

LOCATION.--Lat 33°42'03", long 92°01'33", in SW¼NW¼ sec.3, T.12 S., R.9 W., Bradley County, near left bank on downstream side of bridge on State Highway 15, 3.6 mi (5.8 km) southwest of Rye, 5.8 mi (9.3 km) upstream from Hudgin Creek, and at mile 71.0 (114.2 km).

DRAINAGE AREA.--2,062 mi² (5,340 km²).

PERIOD OF RECORD.--August 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 97.06 ft (29.584 m) above mean sea level. Prior to May 30, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--37 years, 2,575 ft³/s (72.9 m³/s), 16.96 in/yr (431 mm/yr), 1,866,000 acre-ft/yr (2,301 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 47,500 ft³/s (1,350 m³/s) June 13, gage height, 29.11 ft (8.873 m); minimum, 139 ft³/s (3.94 m³/s) Aug. 13, gage height, 5.34 ft (1.628 m).

Period of record: Maximum discharge, 74,500 ft³/s (2,110 m³/s) May 18, 1968, gage height, 31.40 ft (9.571 m); minimum, 3.5 ft³/s (0.099 m³/s) Sept. 27, 28, 1954, gage height, 3.84 ft (1.170 m).

Flood of April 1927 reached a stage of 30.5 ft (9.30 m), discharge, about 73,000 ft³/s (2,070 m³/s).

REMARKS.--Records good.

REVISIONS.--WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	314	457	17,600	5,770	7,140	7,870	1,990	19,000	5,290	429	380	6,020
2	309	605	29,800	5,980	6,820	8,110	1,970	15,700	6,070	382	348	8,330
3	324	1,040	30,300	6,280	6,450	8,140	1,680	13,100	6,190	344	308	9,670
4	432	1,590	28,100	6,610	6,260	7,810	1,310	11,100	6,130	319	271	8,280
5	455	2,210	24,500	6,570	6,370	7,130	1,040	9,540	5,560	304	242	6,500
6	396	2,500	21,000	6,140	6,610	5,970	897	7,650	4,550	286	228	5,090
7	349	2,680	19,000	5,560	6,720	4,110	801	4,860	3,920	270	206	3,100
8	320	2,910	18,100	4,850	6,570	2,480	730	2,630	5,690	249	191	1,870
9	298	3,180	21,200	4,420	6,050	1,780	689	2,120	8,750	272	180	1,260
10	280	3,220	26,400	5,180	4,990	1,530	644	2,190	11,300	263	171	893
11	278	3,150	25,300	9,020	3,420	1,410	618	2,240	17,900	227	155	689
12	294	2,910	21,200	12,000	2,180	1,420	1,780	1,860	34,100	214	143	666
13	299	2,300	17,500	13,500	1,690	1,690	2,980	1,230	46,200	210	147	777
14	312	1,550	14,600	13,600	1,480	2,220	3,390	873	44,500	204	155	1,820
15	398	1,110	12,400	13,600	1,410	2,670	3,650	731	35,300	197	155	2,430
16	785	871	10,600	14,700	1,660	2,950	3,750	648	25,700	191	152	2,370
17	1,410	745	9,210	16,900	2,240	3,120	3,600	837	19,100	183	158	1,880
18	1,830	672	7,730	17,400	2,650	3,270	3,250	1,760	15,200	176	175	1,320
19	2,120	631	5,800	16,200	3,410	3,430	2,740	2,470	12,700	176	188	1,100
20	2,390	621	3,920	14,400	4,130	3,490	1,920	2,950	11,000	174	183	934
21	2,640	867	2,880	12,700	4,600	3,370	1,220	3,430	9,620	168	194	761
22	2,870	1,460	2,550	11,200	5,750	2,990	1,730	3,950	8,270	164	277	648
23	2,990	1,920	2,630	9,990	6,390	2,600	4,470	4,490	6,420	169	287	599
24	2,640	2,270	3,130	9,250	6,690	2,540	5,590	5,000	3,950	182	261	596
25	1,580	2,620	4,050	8,700	6,950	2,510	6,370	5,280	1,870	170	236	1,110
26	862	3,200	4,620	8,070	7,190	2,420	6,840	5,290	1,010	494	237	2,590
27	632	4,740	5,230	7,690	7,400	2,240	7,990	4,620	730	670	236	3,070
28	540	6,210	5,530	7,610	7,600	1,900	12,600	3,330	596	292	205	3,180
29	469	7,320	5,620	7,780	-----	1,910	22,800	2,960	513	222	207	2,790
30	423	8,930	5,650	7,650	-----	2,050	22,600	3,110	473	310	297	2,040
31	433	-----	5,650	7,420	-----	1,910	-----	3,580	-----	414	2,040	-----
TOTAL	29,672	74,489	411,800	296,740	140,820	107,040	131,639	148,529	358,602	8,325	8,613	82,383
MEAN	957	2,483	13,280	9,572	5,029	3,453	4,388	4,791	11,950	269	278	2,746
MAX	2,990	8,930	30,300	17,400	7,600	8,140	22,800	19,000	46,200	670	2,040	9,670
MIN	278	457	2,550	4,420	1,410	1,410	618	648	473	164	143	596
CFSM	.46	1.20	6.44	4.64	2.44	1.67	2.13	2.32	5.80	.13	.13	1.33
IN.	.54	1.34	7.43	5.35	2.54	1.93	2.37	2.68	6.47	.15	.16	1.49
AC-FT	58,850	147,700	816,800	588,600	279,300	212,300	261,100	294,600	711,300	16,510	17,080	163,400
CAL YR 1973	TOTAL 2,035,170 MEAN 5,576 MAX 52,000 MIN 135 CFSM 2.70 IN 36.72 AC-FT 4,037,000											
WTR YR 1974	TOTAL 1,798,652 MEAN 4,928 MAX 46,200 MIN 143 CFSM 2.39 IN 32.45 AC-FT 3,568,000											

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
12-1	2100	26.73	31,400	4-29	2200	25.62	24,000
12-10	1600	26.12	27,100	6-13	1800	29.11	47,500
1-18	0300	24.34	17,700				

07364150 Bayou Bartholomew near McGehee, Ark.

LOCATION.--Lat 33°37'40", long 91°26'45", in NE¼SW¼ sec.30, T.12 S., R.3 W., Desha County, near center of stream on downstream side of bridge on State Highway 4, 2.7 mi (4.3 km) west of McGehee, 17.5 mi (28.2 km) downstream from Ables Creek, and at mile 200.5 (322.6 km).

DRAINAGE AREA.--592 mi² (1,533 km²).

PERIOD OF RECORD.--October 1938 to September 1942, October 1945 to current year. Gage-height records collected and occasional discharge measurements made by Corps of Engineers at this site since August 1938. Daily stages 1940 to date and results of discharge measurements 1938, 1947 to date are published in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 120.48 ft (36.722 m) above mean sea level, supplementary adjustment of 1941. Prior to Sept. 7, 1949, nonrecording gage at same site. October 1938 to June 6, 1972, at datum 1.00 ft (0.305 m) higher. Since Jan. 20, 1971, auxiliary water-stage recorder 14 mi (23 km) upstream.

AVERAGE DISCHARGE.--33 years (1939-42, 1946-74), 674 ft³/s (19.1 m³/s), 15.46 in/yr (393 mm/yr), 488,300 acre-ft/yr (602 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,010 ft³/s (114 m³/s) Jan. 20; maximum gage height, 20.15 ft (6.142 m) Jan. 25; minimum discharge, 54 ft³/s (1.53 m³/s) Oct. 13, gage height, 2.36 ft (0.719 m).
Period of record: Maximum discharge, 6,870 ft³/s (195 m³/s) May 11, 1958, gage height, 25.49 ft (7.769 m), present datum; minimum, 0.20 ft³/s (0.006 m³/s) Aug. 15-23, 1956.
Maximum stage since at least 1930, that of May 11, 1958. Flood in 1932 reached a stage of 23.4 ft (7.13 m), present datum, from floodmarks.

REMARKS.--Records good. Some diversions above station for irrigation. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	69	1,510	1,340	3,200	1,220	565	1,120	1,640	1,670	577	676
2	83	72	1,630	1,320	3,030	1,210	565	1,120	1,750	1,480	583	1,230
3	77	77	1,720	1,320	2,840	1,180	549	1,100	1,790	1,300	559	1,760
4	73	88	1,960	1,300	2,640	1,160	510	1,070	1,800	1,130	517	2,120
5	69	116	2,090	1,270	2,450	1,130	472	1,060	1,840	970	461	2,430
6	65	164	2,120	1,220	2,270	1,090	432	1,030	1,860	819	402	2,600
7	63	221	2,160	1,210	2,100	1,050	401	1,000	1,910	678	336	2,840
8	61	284	2,230	1,190	1,940	999	379	957	2,110	550	283	2,950
9	59	333	2,290	1,220	1,800	944	342	914	2,230	471	247	2,980
10	60	369	2,300	1,520	1,660	890	306	869	2,400	360	233	2,950
11	58	397	2,280	2,080	1,530	840	275	810	2,610	277	231	2,870
12	56	432	2,220	2,410	1,410	782	363	752	2,730	221	224	2,760
13	55	426	2,140	2,700	1,290	717	510	683	2,910	183	213	2,630
14	57	395	2,050	3,020	1,180	647	572	612	3,050	155	201	2,470
15	56	361	1,930	3,320	1,070	581	606	546	3,170	136	187	2,290
16	64	318	1,830	3,590	961	518	623	492	3,270	123	176	2,110
17	71	275	1,710	3,750	853	456	629	436	3,310	117	168	1,950
18	82	232	1,590	3,880	763	402	622	373	3,360	118	156	1,800
19	96	196	1,490	3,950	742	347	597	325	3,360	116	148	1,660
20	116	170	1,410	3,990	724	330	568	292	3,350	115	142	1,510
21	140	171	1,310	3,960	789	348	529	288	3,290	117	139	1,370
22	154	192	1,210	3,900	998	361	593	337	3,210	120	134	1,230
23	155	219	1,120	3,810	1,060	347	683	421	3,130	124	131	1,080
24	145	233	1,190	3,850	1,080	325	711	569	3,000	140	131	934
25	129	263	1,370	3,890	1,110	316	731	619	2,840	141	138	848
26	111	392	1,430	3,820	1,140	316	770	842	2,670	202	148	826
27	95	811	1,460	3,750	1,180	325	839	1,080	2,470	299	156	782
28	81	1,140	1,460	3,710	1,210	332	929	1,170	2,270	373	157	737
29	72	1,290	1,460	3,600	-----	407	1,030	1,210	2,060	432	158	702
30	67	1,390	1,440	3,480	-----	515	1,080	1,260	1,860	477	173	668
31	68	-----	1,420	3,340	-----	550	-----	1,320	-----	545	280	-----
TOTAL	2,627	11,096	53,530	86,750	43,020	20,635	17,781	24,677	77,250	13,959	7,789	53,763
MEAN	84.7	370	1,727	2,798	1,536	666	593	796	2,575	450	251	1,742
MAX	155	1,390	2,300	3,990	3,200	1,220	1,080	1,320	3,360	1,670	583	2,980
MIN	55	69	1,120	1,190	724	316	275	288	1,640	115	131	668
CFSM	.14	.63	2.42	4.73	2.59	1.13	1.00	1.34	4.35	.76	.42	3.03
IN.	.17	.70	3.36	5.45	2.70	1.30	1.12	1.55	4.85	.88	.49	3.38
AC-FT	5,210	22,010	106,200	172,100	85,330	40,930	35,270	48,950	153,200	27,690	15,450	106,600
CAL YR 1973	TOTAL 479,244	MEAN 1,313	MAX 5,440	MIN 55	CFSM 2.22	IN 30.11	AC-FT 940,600					
WTR YR 1974	TOTAL 412,877	MEAN 1,131	MAX 3,990	MIN 55	CFSM 1.91	IN 25.94	AC-FT 818,900					

07365800 Cornie Bayou near Three Creeks, Ark.

LOCATION.--Lat 33°02'21", long 92°56'15", in SW¼NW¼ sec.36, T.19 S., R.18 W., Union County, on left bank at downstream side of bridge on State Highway 15, 3.4 mi (5.5 km) downstream from Pidgeon Roost Creek, 6.0 mi (9.7 km) southwest of town of Three Creeks.

DRAINAGE AREA.--180 mi² (466 km²).

PERIOD OF RECORD.--February 1956 to current year.

GAGE.--Water-stage recorder. Prior to Oct. 29, 1959, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--18 years, 175 ft³/s (4.96 m³/s), 13.20 in/yr (335 mm/yr), 126,800 acre-ft/yr (156 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 65,000 ft³/s (1,840 m³/s) June 8, gage height, 17.50 ft (5.334 m), from rating curve extended as explained below; minimum, 10 ft³/s (0.28 m³/s) Oct. 12, gage height, 3.09 ft (0.942 m).

Period of record: Maximum discharge, 65,000 ft³/s (1,840 m³/s) June 8, 1974, gage height, 17.50 ft (5.334 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of contracted-opening measurement at 35,800 ft³/s (1,010 m³/s); no flow at times in 1956, 1964, 1968, 1969, 1970, 1972.

Maximum stage since at least 1880, that of June 8, 1974.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

OAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	105	793	282	605	170	391	101	147	26	79	2,170
2	26	135	576	210	473	158	185	132	188	25	82	2,430
3	20	98	452	307	346	148	108	187	169	24	50	1,200
4	17	97	2,500	469	265	136	85	204	83	22	36	951
5	15	448	7,150	449	205	124	69	129	131	21	31	696
6	13	456	1,810	473	172	113	57	96	197	49	37	491
7	12	429	995	525	161	106	50	86	195	52	27	207
8	12	473	720	519	158	100	48	72	24,000	167	22	139
9	12	410	544	494	142	92	47	59	23,400	181	20	412
10	12	237	364	840	122	86	44	50	2,650	186	19	448
11	11	152	230	2,990	110	300	48	47	1,750	155	18	574
12	13	104	180	3,860	104	748	342	49	1,160	76	18	676
13	20	80	159	1,530	101	880	556	48	787	44	18	780
14	50	68	148	988	102	850	763	45	513	40	29	900
15	119	62	133	840	464	652	657	38	256	113	34	750
16	393	56	113	756	1,010	437	397	34	170	82	42	650
17	418	52	99	724	1,000	200	142	31	196	82	28	732
18	450	49	90	635	772	137	81	30	240	84	23	695
19	881	45	121	605	664	115	64	28	213	56	19	519
20	697	47	331	780	682	107	54	26	146	35	16	423
21	365	109	399	1,120	1,120	167	49	32	106	28	15	348
22	118	171	464	1,020	1,600	245	2,290	272	79	24	14	176
23	66	190	537	840	1,460	297	12,000	161	62	22	13	99
24	52	136	756	1,010	940	291	3,300	95	53	23	12	78
25	45	98	823	1,260	658	185	1,450	57	46	29	12	289
26	40	245	941	1,260	478	143	940	279	41	114	15	633
27	36	651	1,000	1,050	276	133	596	495	36	198	33	1,040
28	33	2,300	805	1,000	189	119	296	513	33	241	25	982
29	30	1,760	652	1,160	-----	150	152	465	30	125	43	714
30	29	1,120	513	976	-----	273	114	166	28	51	227	533
31	63	-----	359	772	-----	378	-----	80	-----	42	523	-----
TOTAL	4,109	10,383	24,757	29,744	14,379	8,040	25,375	4,107	57,105	2,417	1,580	20,735
MEAN	133	346	799	959	514	259	846	132	1,904	78.0	51.0	691
MAX	881	2,300	7,150	3,860	1,600	880	12,000	513	24,000	241	523	2,430
MIN	11	45	90	210	101	86	44	26	28	21	12	78
CFSM	.74	1.92	4.44	5.33	2.86	1.44	4.70	.73	10.6	.43	.28	3.84
1N.	.85	2.15	5.12	6.15	2.97	1.66	5.24	.85	11.80	.50	.33	4.29
AC-FT	8,150	20,590	49,110	59,000	28,520	15,950	50,330	8,150	113,300	4,790	3,130	41,130
CAL YR 1973	TOTAL 120,155.8	MEAN 329	MAX 7,150	MIN 5.5	CFSM 1.83	1N 24.83	AC-FT 238,300					
WTR YR 1974	TOTAL 202,731.0	MEAN 555	MAX 24,000	MIN 11	CFSM 3.08	1N 41.90	AC-FT 402,100					

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
11-28	1400	10.87	3,150	4-23	0600	13.23	16,100
12- 5	0400	12.49	9,950	6- 8	2200	17.50	65,000
1-12	0200	11.35	4,920	9- 1	2100	11.14	4,350
2-22	2400	10.33	1,740				

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation of each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but it is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
St. Francis River basin							
07046530	Oitch No. 42 at Hickman, Ark.	Lat 35°57'14", long 89°43'59", on west line of SW¼NW¼ sec.5, T.15 N., R.13 E., Mississippi County, at culvert on State Highway 137, 0.7 mile (1.1 km) north of Hickman.	1.08 (2.80 km²)	1963-74	4-22-74	12.53	142
07047200	Oitch No. 45 near Lepanto, Ark.	Lat 35°36'46", long 90°22'30", in SW¼SW¼ sec.32, T.12 N., R.7 E., Poinsett County, at culvert on State Highway 14, 2.5 miles (4.0 km) west of Lepanto.	2.16 (5.59 km²)	1962-74	4-22-74	8.84	220
07047820	Murray Creek near Jonesboro, Ark.	Lat 35°51'52", long 90°38'26", in SW¼SW¼ sec.2, T.14 N., R.4 E., Craighead County, at culvert on State Highway 1, 4 miles (6.4 km) north-east of Jonesboro.	1.38 (3.57 km²)	1960-74	11-24-73	9.71	470
07047880	Pope Creek tributary at Birdeye, Ark.	Lat 35°22'35", long 90°42'02", in NE¼SE¼ sec.30, T.9 N., R.4 E., Cross County, at culvert on State Highway 42, 0.9 mile (1.4 km) west of Birdeye.	.08 (.21 km²)	1963-74	6- 7-74	4.39	60
07047924	Crooked Bayou tributary at State Highway 149, at Hughes, Ark.	Lat 34°57'07", long 90°28'00", in SW¼SE¼ sec.16, T.4 N., R.6 E., St. Francis County, at culvert on State Highway 149, 0.4 mile (.6 km) north-east of junction of State Highways 38 and 149, at Hughes.	.48 (1.24 km²)	1963-74	4-22-74	8.97	140
White River basin							
07047975	Oog Branch at St. Paul, Ark.	Lat 35°49'32", long 93°45'49", in NW¼NW¼ sec.4, T.13 N., R.26 W., Madison County, at culvert on State Highway 23, at St. Paul.	1.23 (3.19 km²)	1961-74	11-24-73 a4-22-73	9.41 10.60	600 956
07047990	West Fork White River tributary near Greenland, Ark.	Lat 35°58'22", long 94°09'56", in NW¼SE¼ sec.16, T.15 N., R.30 W., Washington County, at culvert on U.S. Highway 71, 1.5 miles (2.4 km) south of Greenland.	.67 (1.74 km²)	1960-74	11-24-73	b11.09	1,130
07048900	Whitener Branch tributary near Spring Valley, Ark.	Lat 36°10'24", long 93°54'59", in SE¼NW¼ sec.1, T.17 N., R.28 W., Washington County, at culvert on State Highway 68, 1 mile (1.6 km) east of Spring Valley.	1.07 (2.77 km²)	1960-74	11-24-73	8.96	385
07048940	War Eagle Creek near Witter, Ark.	Lat 35°54'05", long 93°42'04", in SE¼SE¼ sec.2, T.14 N., R.26 W., Madison County, at bridge on State Highway 23, 2.8 miles (4.5 km) south of Witter.	22.4 (58.0 km²)	1963-74	11-24-73	17.29	10,300
07049000	War Eagle Creek near Hindsville, Ark.	Lat 36°12'02", long 93°51'20", in SE¼NE¼ sec.28, T.18 N., R.27 W., Madison County, on left bank about 800 ft above bridge on State Highway 45, 3.9 miles (6.3 km) north of Hindsville.	263 (681 km²)	1953-70 [†] , 1971-74	11-25-73	24.05	27,900
07050200	Maxwell Creek at Kingston, Ark.	Lat 36°03'06", long 93°31'03", in SW¼NW¼ sec.15, T.16 N., R.24 W., Madison County, at bridge on State Highway 21, 0.1 mile (.2 km) north of Kingston.	2.75 (7.12 km²)	1961, 1963-74	11-24-73	b9.63	2,200
07050400	Freeman Branch at Berryville, Ark.	Lat 36°22'06", long 93°33'33", in SE¼NW¼ sec.29, T.20 N., R.24 W., Carroll County, at culvert on College Street, 0.5 mile (.8 km) east of State Highway 21 in Berryville. Prior to 1972 published as Osage Creek tributary at Berryville.	.73 (1.89 km²)	1961-74	4-21-74	7.56	260
07054400	Charley Creek near Omaha, Ark.	Lat 36°27'24", long 93°04'46", in NW¼SW¼ sec.23, T.21 N., R.20 W., Boone County, at culvert on State Highway 14, 6.1 miles (9.8 km) east of Omaha.	3.41 (8.83 km²)	1962-74	4-21-74	11.78	2,180
07054450	East Sugarloaf Creek tributary near Lead Hill, Ark.	Lat 36°22'28", long 92°49'52", in NW¼NW¼ sec.19, T.20 N., R.17 W., Marion County, at culvert on State Highway 14, 5.0 miles (8.0 km) south-east of Lead Hill.	.85 (2.20 km²)	1962-74	11-24-73	9.32	540
07055550	Crooked Creek tributary near Oogpatch, Ark.	Lat 36°09'01", long 93°07'23", in SW¼SW¼ sec.4, T.17 N., R.20 W., Boone County, at culvert on State Highway 7, 2.9 miles (4.7 km) north of Oogpatch. Prior to 1967 published as Crooked Creek tributary near Marble Falls.	4.36 (12.9 km²)	1961-74	11-24-73	14.53	2,390
07055650	Smith Creek near Boxley, Ark.	Lat 35°56'50", long 93°23'52", in SW¼NW¼ sec.23, T.15 N., R.23 W., Newton County, at bridge on State Highway 21, 1.7 miles (2.7 km) south of Boxley.	8.35 (21.6 km²)	1963-74	11-24-73	b15.80	6,830

† Operated as a continuous-record gaging station.

a Revised.

b From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
White River basin--Continued							
07055800	Ory Branch near Vendor, Ark.	Lat 35°56'00", long 93°06'46", in SW¼SW¼ sec.21, T.15 N., R.20 W., Newton County, at bridge on county road, 2.4 miles (3.9 km) southwest of Vendor.	6.30 (16.3 km²)	1962-74	11-24-73	b14.24	3,880
07057000	Buffalo River near Rush, Ark.	Lat 36°07'02", long 92°33'17", in SE¼NE¼ sec.15, T.17 N., R.15 W., Marion County, on left bank 0.6 mile (1.0 km) upstream from Rush Creek, 1.4 miles (2.3 km) southeast of Rush, and at mile 24.3 (39.6 km).	a1,096 (2839 km²)	1928-70+ 1972, 1974	12-10-71 11-25-73	37.44 40.45	113,000 130,000
07057300	Oodd Creek tributary near Mountain Home, Ark.	Lat 36°19'05", long 92°24'01", in NE¼SW¼ sec.17, T.19 N., R.13 W., Baxter County, at culvert on U.S. Highway 62, 1.5 miles (2.4 km) southwest of Mountain Home. Prior to 1966 published as Big Creek tributary near Mountain Home.	.76 (1.97 km²)	1961-74	11-24-73	12.82	661
07060600	Band Mill Creek near Brockwell, Ark.	Lat 36°08'02", long 91°58'48", in SE¼SE¼ sec.7, T.17 N., R.9 W., Izard County, at culvert on State Highway 56, 3.1 miles (5.0 km) west of Brockwell.	1.25 (3.24 km²)	1961-74	11-24-73	6.09	350
07060670	Hughes Creek near Mountain View, Ark.	Lat 35°51'46", long 92°08'47", in NE¼SW¼ sec.10, T.14 N., R.11 W., Stone County, at bridge on State Highway 66, 1.7 miles (2.7 km) west of Mountain View. Prior to 1969 published as Lick Fork tributary near Mountain View.	3.20 (8.29 km²)	1961-74	11-24-73	7.89	1,110
07060830	Wolf Bayou near Orasco, Ark.	Lat 35°39'36", long 91°55'15", in NW¼SE¼ sec.23, T.12 N., R.9 W., Cleburne County, at culvert on State Highway 25, 2.4 miles (3.9 km) northeast of Orasco.	a.27 (.70 km²)	1963-74	11-24-73	6.20	92
07061100	Gibbs Creek at Sulphur Rock, Ark.	Lat 35°45'32", long 91°30'52", in SE¼SW¼ sec.15, T.13 N., R.5 W., Independence County, at culvert on State Highway 69, 0.9 mile (1.4 km) west of Sulphur Rock.	3.90, (10.1 km²)	1962-74	12- 4-73	8.10	770
07068870	Fourche River tributary at Middlebrook, Ark.	Lat 36°27'46", long 90°55'26", in NW¼SW¼ sec.13, T.21 N., R.1 E., Randolph County, at culvert on State Highway 115, 0.3 mile (.5 km) north of Middlebrook. Prior to 1969 published as Fourche Creek tributary at Middlebrook.	.19 (.49 km²)	1961-74	4-22-74	8.30	287
07068890	Fourche River above Pocahontas, Ark.	Lat 36°20'21", long 90°56'33", in NE¼NW¼ sec.35, T.20 N., R.1 E., Randolph County, on right bank at upstream side of bridge on State Highway 115, 5.6 miles (9.0 km) north of Pocahontas.	229 (593 km²)	1965-70+ 1971-74	5-15-74	22.72	20,800
07069000	Black River at Pocahontas, Ark.	Lat 36°15'14", long 90°58'12", in SW¼SW¼ sec.27, T.19 N., R.1 E., Randolph County, at bridge on U.S. Highway 67 at Pocahontas.	a4,845 (12,549 km²)	1937-70+ 1971-74	11-30-73	22.46	35,900
07069250	Brush Creek near Mammoth Spring, Ark.	Lat 36°25'36", long 91°29'27", in SE¼SE¼ sec.34, T.21 N., R.5 W., Fulton County, at culvert on U.S. Highway 63, 5.5 miles (8.8 km) southeast of Mammoth Spring. Prior to 1967 published as Spring River tributary near Mammoth Spring.	.48 (1.24 km²)	1961-74	5-22-74	b14.25	849
07069290	Miller Creek near Salem, Ark.	Lat 36°20'13", long 91°46'32", in SE¼NW¼ sec.6, T.19 N., R.7 W., Fulton County, at culvert on U.S. Highway 62, 3.6 miles (5.8 km) southeast of Salem.	2.28 (5.91 km²)	1961, 1963-74	5-14-74	6.57	800
07072200	Hubble Creek near Pocahontas, Ark.	Lat 36°15'32", long 91°02'02", in SE¼SW¼ sec.25, T.19 N., R.1 W., Randolph County, at culvert on U.S. Highway 62, 3.4 miles (5.5 km) west of Pocahontas. Prior to 1966 published as Eleven Point River tributary near Pocahontas.	1.33 (3.44 km²)	1961-74	11-24-73	9.12	600
07074200	Ory Branch tributary near Sidney, Ark.	Lat 36°00'12", long 91°35'06", in NW¼SW¼ sec.25, T.16 N., R.6 W., Sharp County, at culvert on U.S. Highway 167, 4.2 miles (6.8 km) east of Sidney. Prior to 1963 published as Big Creek tributary near Sidney.	1.22 (3.16 km²)	1961-74	11-24-73	10.65	790
07074250	Reeds Creek near Strawberry, Ark.	Lat 35°58'58", long 91°02'12", in SW¼SW¼ sec.32, T.16 N., R.3 W., Lawrence County, at bridge on State Highway 117, 1.4 miles (2.3 km) northwest of Strawberry.	34.9 (90.4 km²)	1963-74	5-22-74	14.06	4,600
07074550	Village Creek near O'Kean, Ark.	Lat 36°10'45", long 90°50'29", on south line SW¼SW¼ sec.23, T.18 N., R.2 E., Randolph County, at bridge on State Highway 90, 1.6 miles (2.6 km) northwest of O'Kean. Prior to 1965 published as Village Creek Main Ditch near O'Kean.	6.24 (16.2 km²)	1961-74	6- 7-74	6.73	60
07074855	Cypress Creek tributary near Augusta, Ark.	Lat 35°20'37", long 91°20'38", in SE¼SE¼ sec.6, T.8 N., R.3 W., Woodruff County, at culvert on State Highway 33, 4.4 miles (7.1 km) north of Augusta.	5.54 (14.3 km²)	1962-74	4-21-74	4.36	325

‡ Operated as a continuous-record gaging station

a Revised.

b From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
White River basin--Continued							
07074900	Trace Creek tributary near Marshall, Ark.	Lat 35°52'14", long 92°36'08", in NE½SW¼ sec.8, T.14 N., R.15 W., Searcy County, at culvert on U.S. Highway 65, 3.2 miles (5.1 km) south of Marshall.	.26 (.67 km ²)	1961-74	11-24-73	b10.50	208
07074950	Tick Creek near Leslie, Ark.	Lat 35°51'20", long 92°26'24", in SW¼NE¼ sec.14, T.14 N., R.14 W., Searcy County, at culvert on State Highway 66, 1.5 miles (2.4 km) northeast of Oxley, and 7.0 miles (11.3 km) east of Leslie.	1.58 (4.09 km ²)	1961-74	11-24-73	8.13	660
07075600	Choctaw Creek tributary near Choctaw, Ark.	Lat 35°31'36", long 92°25'02", in SE½SW¼ sec.6, T.10 N., R.13 W., Van Buren County, at culvert on State Highway 330, 1.4 miles (2.3 km) east of Choctaw.	1.36 (3.52 km ²)	1964-74	6- 8-74	b13.60	597
07075800	Peter Creek tributary near Ida, Ark.	Lat 35°32'33", long 91°57'34", in SW¼NE¼ sec.33, T.11 N., R.9 W., Cleburne County, at culvert on State Highway 25, 3.5 miles (5.6 km) southwest of Ida.	a.26 (.67 km ²)	1964-74	11-24-73	8.12	115
07076630	Key Branch near Searcy, Ark.	Lat 35°14'47", long 91°47'01", in NW½SW¼ sec.8, T.7 N., R.7 W., White County, at culvert on State Highway 36, 2.8 miles (4.5 km) west of Searcy. Prior to 1964 published as Little Red River tributary near Searcy.	.66 (1.71 km ²)	1961-74	11-24-73	7.79	573
07076820	Gum Springs Creek near Higginson, Ark.	Lat 35°12'04", long 91°43'56", on east line NE½ SE½ sec.27, T.7 N., R.7 W., White County, at bridge on U.S. Highway 67, 1.2 miles (1.9 km) northwest of Higginson. Prior to 1964 published as Glade Creek near Higginson.	5.00 (13.0 km ²)	1961-74	11-24-73	c10.25	950
07076870	Pigeon Roost Creek at Butlerville, Ark.	Lat 34°58'36", long 91°50'38", in NW½NE¼ sec.15, T.4 N., R.8 W., Lonoke County, at bridge on State Highway 38, 0.6 mile (1.0 km) west of Butlerville.	23.0 (59.6 km ²)	1961-74	4-21-74	b12.62	8,800
07077100	Big Creek near Boydsville, Ark.	Lat 36°22'12", long 90°19'50", in SE½NW¼ sec.16, T.20 N., R.7 E., Clay County, at bridge on county road, 0.5 mile (.8 km) south of Crockett and 4.0 miles (6.4 km) northeast of Boydsville.	12.8 (33.2 km ²)	1962-74	12- 4-73	12.85	1,700
07077200	Big Creek tributary near Boydsville Ark.	Lat 36°22'32", long 90°19'56", in SE½SW¼ sec.9, T.20 N., R.7 E., Clay County, at culvert on county road, 0.1 mile (.2 km) west of Crockett and 4.1 miles (6.6 km) northeast of Boydsville.	1.58 (4.09 km ²)	1962-74	5-15-74	6.52	240
07077340	Sugar Creek tributary near Walcott, Ark.	Lat 36°04'26", long 90°36'55", in NW½SW¼ sec.25, T.17 N., R.4 E., Greene County, at culvert on State Highway 25, 3.2 miles (5.1 km) east of junction of State Highways 25 and 141, and 3.9 miles (6.3 km) northeast of Walcott.	.68 (1.76 km ²)	1963-74	11-24-73	10.25	560
07077430	Willow Oitch near Egypt, Ark.	Lat 35°56'29", long 90°56'33", in SW½SW¼ sec.12, T.15 N., R.1 E., Lawrence County, at culvert on State Highway 91, 5.1 miles (8.2 km) north of Egypt.	.25 (.65 km ²)	1963-74	11-24-73	4.86	24
07077680	Threemile Creek near Amagon, Ark.	Lat 35°33'42", long 91°01'25", in NW½NE¼ sec.30, T.11 N., R.1 E., Poinsett County, at bridge on State Highway 14, 4.8 miles (7.7 km) east of Amagon.	7.93 (20.5 km ²)	1961-74	11-24-73	4.52	375
07077860	Boat Gunwale Slash near Holly Grove, Ark.	Lat 34°36'18", Long 91°10'12", in SE½SW¼ sec.13, T.1 S., R.2 W., Monroe County, at bridge on State Highway 86, 1.8 miles (2.9 km) northeast of Holly Grove. Prior to 1972 published as Boat Gunwale Slash tributary near Holly Grove.	10.0 (25.9 km ²)	1962-74	11-27-73	9.23	420
07077920	Big Creek at Goodwin, Ark.	Lat 34°56'22", long 91°00'55", in NE½NE½ sec.29, T.4 N., R.1 E., St. Francis County, at bridge on U.S. Highway 70, 0.3 mile (.5 km) east of Goodwin.	31.1 (80.5 km ²)	1961-74	6- 7-74	9.47	620
07077940	Spring Creek near Aubrey, Ark.	Lat 34°41'16", long 90°53'45", in SW½SE¼ sec.16, T.1 N., R.2 E., Lee County, at bridge on State Highway 121, 2.1 miles (3.4 km) south of Aubrey.	38.0 (98.4 km ²)	1962-74	5-15-74	a15.17	1,720
07078170	Little LaGrue Bayou tributary near OeWitt, Ark.	Lat 34°19'33", long 91°24'06", on east line NE½NE½ sec.26, T.4 S., R.4 W., Arkansas County, at bridge on county road, 4.5 miles (7.2 km) northwest of OeWitt.	1.51 (3.91 km ²)	1961-74	5-15-74	9.27	205
07078210	Tarleton Creek tributary at Ethel, Ark.	Lat 34°18'02", long 91°09'45", in NW½SE¼ sec.31, T.4 S., R.1 W., Arkansas County, at culvert on State Highway 17, 1.0 mile (1.6 km) north of Ethel.	.20 (.52 km ²)	1963-74	4-22-74	4.80	65

a Revised.

b From floodmark.

c Downstream gage.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Arkansas River basin							
07188900	Butler Creek tributary near Gravette, Ark.	Lat 36°26'51", long 94°26'36", in SW¼SE¼ sec.36, T.21 N., R.33 W., Benton County, at culvert on State Highway 59, 2.0 miles (3.2 km) north of Gravette.	.96 (2.49 km ²)	1961-74	6- 8-74	6.36	420
07194890	Osage Creek at Cave Springs, Ark.	Lat 36°15'56", long 94°14'15", in SW¼NW¼ sec.1, T.18 N., R.31 W., Benton County, at bridge on State Highway 264, 0.4 mile (.6 km) west of Cave Springs.	40.4 (105 km ²)	1950, 1963-74	5-10-50 6- 8-74	b10.60 b10.30	d12,700 11,300
07195200	Brush Creek tributary near Tontitown, Ark.	Lat 36°10'38", long 94°16'40", in NW¼SW¼ sec.3, T.17 N., R.31 W., Washington County, at culvert on State Highway 68, 2.2 miles (3.5 km) west of Tontitown.	.37 (.96 km ²)	1959-74	11-24-73	8.33	98
07195450	Ballard Creek at Summers, Ark.	Lat 35°58'42", long 94°29'56", in SW¼SW¼ sec.16, T.15 N., R.33 W., Washington County, at bridge on U.S. Highway 62, 0.4 mile (.6 km) west of Summers.	14.6 (37.8 km ²)	1963-74	5-30-74	10.40	5,300
07249300	James Fork near Midland, Ark.	Lat 35°04'27", long 94°20'20", in NW¼NW¼ sec.32, T.5 N., R.31 W., Sebastian County, at bridge on State Highway 252, 1.6 miles (2.6 km) southeast of Midland.	44.0 (114 km ²)	1963-74	4-30-74	8.90	.
07249500	Cove Creek near Lee Creek, Ark.	Lat 35°43'20", long 94°24'28", in SW¼NW¼ sec.16, T.12 N., R.32 W., Crawford County, at bridge on U.S. Forest Service road, 4.5 miles (7.2 km) northwest of Lee Creek.	35.3 (91.4 km ²)	1951-70+, 1971-74	11-24-73	11.37	12,500
07249650	Mountain Fork near Evansville, Ark.	Lat 35°42'23", long 94°28'57", in NE¼SE¼ sec.22, T.12 N., R.33 W., Crawford County, at bridge on State Highway 59, 6.2 miles (10.0 km) south of Evansville. Prior to 1971 published as Mountain Fork Creek near Evansville.	8.15 (21.1 km ²)	1962-74	11-24-73	8.08	1,620
07249950	Webber Creek tributary near Cedarville, Ark.	Lat 35°36'00", long 94°22'49", in SE¼SE¼ sec.27, T.11 N., R.32 W., Crawford County, at culvert on State Highway 59, 2.3 miles (3.7 km) north of Cedarville.	.34 (.88 km ²)	1962-74	11-24-73	7.38	220
07251500	Frog Bayou at Rudy, Ark.	Lat 35°31'32", long 94°16'18", in SW¼SW¼ sec.23, T.10 N., R.31 W., Crawford County, at bridge on State Highway 282 at Rudy.	216 (559 km ²)	1951-70+, 1971-74	11-24-73	17.40	32,000
07252200	North Fork White Oak Creek tributary near Watalula, Ark.	Lat 35°35'43", long 93°50'49", in SE¼NE¼ sec.27, T.11 N., R.27 W., Franklin County, at culvert on State Highway 23, 2.2 miles (3.5 km) northwest of Watalula.	.46 (1.19 km ²)	1961-74	11-24-73	6.94	225
07256500	Spadra Creek at Clarksville, Ark.	Lat 35°28'06", long 93°27'46", in NW¼NE¼ sec.5, T.9 N., R.23 W., Johnson County, on right bank at Clarksville, 0.2 mile (.3 km) downstream from bridge on U.S. Highway 64.	61.1 (158 km ²)	1953-70+, 1971-74	6- 5-74	19.93	27,400
07257060	Mikes Creek tributary near Ozone, Ark.	Lat 35°37'25", long 93°26'02", in NE¼SE¼ sec.9, T.11 N., R.23 W., Johnson County, at culvert on State Highway 21, 1.4 miles (2.3 km) southeast of Ozone.	.19 (.49 km ²)	1964-74	6- 5-74	b10.98	166
07257100	Minnow Creek tributary near Hagarville, Ark.	Lat 35°30'10", long 93°21'56", in SE¼SE¼ sec.19, T.10 N., R.22 W., Johnson County, at culvert on State Highway 123, 2.6 miles (4.2 km) southwest of Hagarville.	.20 (.52 km ²)	1962-74	6- 5-74	6.00	140
07257700	McCoy Creek near Oover, Ark.	Lat 35°25'04", long 93°05'09", in SE¼NE¼ sec.23, T.9 N., R.20 W., Pope County, at bridge on State Highway 27, 2.0 miles (3.2 km) northeast of Oover.	7.05 (18.3 km ²)	1961-74	12- 4-73	7.75	1,400
07258200	Pack Saddle Creek tributary near Waldron, Ark.	Lat 34°58'18", long 94°05'42", in SE¼SE¼ sec.29, T.4 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 5.2 miles (8.4 km) north of Waldron.	.92 (2.38 km ²)	1961-74	6- 7-74	4.17	110
07260630	Jake Creek near Chickalah, Ark.	Lat 35°07'49", long 93°20'19", in NW¼SE¼ sec.33, T.6 N., R.22 W., Yell County, at culvert on State Highway 27, 0.7 mile (1.1 km) northeast of Ranger and 4.2 miles (6.8 km) southwest of Chickalah.	1.85 (4.79 km ²)	1961-74	10-12-73	b10.20	1,070
07260679	East Fork Point Remove Creek tributary near Saint Vincent, Ark.	Lat 35°16'10", long 92°43'59", in NE¼NE¼ sec.7, T.7 N., R.16 W., Conway County, at culvert on State Highway 213, 2.2 miles (3.5 km) south of Saint Vincent.	.09 (.23 km ²)	1967-74	6- 5-74	6.44	41
07261050	Pine Mountain Creek tributary near Oamascus, Ark.	Lat 35°23'19", long 92°23'17", in NW¼SW¼ sec.28, T.9 N., R.13 W., Van Buren County, at culvert on State Highway 124, just east of junction with U.S. Highway 65, and 2.0 miles (3.2 km) northeast of Oamascus.	.29 (.75 km ²)	1961-74	11-24-73	8.41	135

† Operated as a continuous-record gaging station.

b From floodmark.

d Not previously published.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Arkansas River basin--Continued							
07261300	Tan-a-hill Creek near Boles, Ark.	Lat 34°43'49", long 94°04'43", in SW¼NW¼ sec.22, T.1 N., R.29 W., Scott County, at culvert on U.S. Highway 71, 0.3 mile (.5 km) southwest of Y City and 3.8 miles (6.1 km) southwest of Boles.	2.33 (6.03 km ²)	1960-74	6- 8-74	b13.50	3,100
07261800	Brogan Creek near Rover, Ark.	Lat 34°54'28", long 92°24'06", in NW¼SE¼ sec.13, T.3 N., R.23 W., Yell County, at culvert on State Highway 27, 2.7 miles (4.3 km) south of Rover. Prior to 1968 published as Fourche LaFave River tributary near Rover.	1.04 (2.69 km ²)	1963-74	6- 7-74	6.66	425
07263100	Fourche LaFave River tributary near Perryville, Ark.	Lat 35°01'14", long 92°46'06", in NW¼SW¼ sec.1, T.4 N., R.17 W., Perry County, at culvert on State Highway 60, 2.2 miles (3.5 km) northeast of Perryville.	1.47 (3.81 km ²)	1962-74	12- 4-73	7.61	270
07263400	Little Maumelle River at Ferndale, Ark.	Lat 34°46'48", long 92°33'15", in NW¼SE¼ sec.25, T.2 N., R.15 W., Pulaski County, at bridge on county road, 0.2 mile (.3 km) northeast of Ferndale.	15.0 (38.8 km ²)	1963-74	4-21-74	12.34	4,500
07263860	Mile Branch near Tomberlin, Ark.	Lat 34°29'08", long 91°51'13", in NW¼NE¼ sec.3, T.3 S., R.8 W., Jefferson County, at bridge on county road, 2.3 miles (3.7 km) southeast of Tomberlin. Prior to 1964 published as Main Otch Lateral No. 9 near Tomberlin.	2.75 (7.12 km ²)	1963-74	11-24-73	10.90	475
07263910	Cypress Branch near Jacksonville, Ark.	Lat 34°54'28", long 92°10'55", in SE¼NE¼ sec.9, T.3 N., R.11 W., Pulaski County, at culvert on State Highway 107, 5.0 miles (8.0 km) northwest of Jacksonville.	2.38 (6.16 km ²)	1961-74	4-21-74	11.20	810
07264100	White Oak Branch near Lonoke, Ark.	Lat 34°46'20", long 91°50'34", on west line SW¼NW¼ sec.26, T.2 N., R.8 W., Lonoke County, at bridge on county road, 3.3 miles (5.3 km) east of Lonoke.	8.41 (21.8 km ²)	1961-74	4-21-74	9.30	1,440
Red River basin							
07338700	Twomile Creek near Hatfield, Ark.	Lat 34°30'52", long 94°20'14", in NW¼NW¼ sec.8, T.3 S., R.31 W., Polk County, at bridge on U.S. Highway 71, 3.1 miles (5.0 km) northeast of Hatfield.	16.1 (41.7 km ²)	1963-74	4-22-74	10.00	3,200
07339800	Pepper Creek near DeQueen, Ark.	Lat 34°02'44", long 94°18'13", on north line NW¼NE¼ sec.28, T.8 S., R.31 W., Sevier County, at bridge on U.S. Highway 71, 1.5 miles (2.4 km) east of junction of U.S. Highways 70 and 71, and 2.3 miles (3.7 km) east of DeQueen.	6.43 (16.7 km ²)	1961-74	6- 8-74	6.23	1,010
07340200	West Flat Creek near Foreman, Ark.	Lat 33°45'13", long 94°23'28", in NW¼SW¼ sec.2, T.12 S., R.32 W., Little River County, at bridge on State Highway 41, 2.3 miles (3.7 km) north of Foreman.	10.6 (27.5 km ²)	1962-74	10-12-73	11.51	1,750
07340530	Mill Slough tributary near Lockesburg, Ark.	Lat 33°58'04", long 94°11'25", on south line SW¼NW¼ sec.22, T.9 S., R.30 W., Sevier County, at culvert on State Highway 24, 1.3 miles (2.1 km) west of Lockesburg.	.64 (1.66 km ²)	1963-74	5- 4-74	7.26	385
07341100	Rock Creek near Oierks, Ark.	Lat 34°06'46", long 94°02'25", in SW¼NE¼ sec.36, T.7 S., R.29 W., Howard County, at bridge on U.S. Highway 70, 1.4 miles (2.3 km) southwest of Oierks.	9.48 (24.6 km ²)	1961, 1963-74	6- 7-74	11.05	6,200
07341700	Caney Creek near Hope, Ark.	Lat 33°41'34", long 93°38'12", in SE¼NE¼ sec.24, T.12 S., R.25 W., Hempstead County, at bridge on State Highway 4, 3.1 miles (5.0 km) northwest of Hope.	12.9 (33.4 km ²)	1963-74	8-31-74	b15.70	9,410
07344320	Mill Creek tributary near Fouke, Ark.	Lat 33°17'53", long 93°54'58", in NW¼NE¼ sec.8, T.17 S., R.27 W., Miller County, at culvert on U.S. Highway 71, 3.0 miles (5.0 km) northwest of Fouke.	1.43 (3.70 km ²)	1961-74	12- 3-73	10.65	570
07346800	East Fork Kelly Bayou tributary at Kiblah, Ark.	Lat 33°02'57", long 93°53'44", in NE¼NW¼ sec.3, T.20 S., R.27 W., Miller County, at culvert on U.S. Highway 71, 0.1 mile (.2 km) south of Kiblah.	.13 (.34 km ²)	1961-74	6- 8-74	8.74	96
07348630	Barlow Branch tributary near McNeil, Ark.	Lat 33°18'43", long 93°13'52", in NW¼SE¼ sec.25, T.16 S., R.21 W., Columbia County, at culvert on county road, 2.5 miles (4.0 km) south of McNeil.	.05 (.13 km ²)	1961-74	4-22-74	8.11	89
07349430	Bodcau Creek at Stamps, Ark.	Lat 33°22'00", long 92°31'20", in NE¼NW¼ sec.7, T.16 S., R.23 W., Lafayette County, at bridge on U.S. Highway 82, 1.0 mile (1.6 km) west of Stamps.	234 (606 km ²)	1959-70+ 1971-74	9- 2-74	12.90	5,930

‡ Operated as a continuous-record gaging station.

b From floodmark.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Red River basin--Continued							
07355800	Lewis Creek tributary near Mena, Ark.	Lat 34°37'15", long 94°12'15", in NE½SW¼ sec.33, T.1 S., R.30 W., Polk County, at culvert on U.S. Highway 71, 3.1 miles (5.0 km) northeast of Mena.	.64 (1.66 km²)	1961-74	6- 8-74	5.80	500
07355900	Big Fork tributary at Big Fork, Ark.	Lat 34°28'23", long 93°57'38", in SE½NW¼ sec.23, T.3 S., R.28 W., Polk County, at culvert on State Highway 8, 0.9 mile (1.4 km) southeast of Big Fork.	.16 (.41 km²)	1964-74	4-22-74	9.36	103
07356500	South Fork Ouachita River at Mount Ida, Ark.	Lat 34°33'37", long 93°38'09", in NE½NE¼ sec.23, T.2 S., R.25 W., Montgomery County, at bridge on U.S. Highway 270 at Mount Ida.	64 (166 km²)	1950-70+, 1971-74	5-22-74	12.65	12,500
07356700	Barnes Branch near Mount Ida, Ark.	Lat 34°33'57", long 93°37'03", in SE½SE¼ sec.13, T.2 S., R.25 W., Montgomery County at culvert on State Highway 27, 1.1 miles (1.8 km) northeast of Mount Ida.	1.85 (4.79 km²)	1961-74	6- 8-74	12.80	810
07357700	Glazypeau Creek at Mountain Valley, Ark.	Lat 34°37'33", long 93°03'10", in SE½SE¼ sec.20, T.1 S., R.19 W., Garland County, at bridge on State Highway 7, 0.3 mile (.5 km) southeast of Mountain Valley.	3.82 (9.89 km²)	1961-74	4-21-74	12.02	1,920
07359520	Ouachita River tributary near Malvern, Ark.	Lat 34°22'01", long 92°52'01", in SW½NE¼ sec.19, T.4 S., R.17 W., Hot Spring County, at culvert on State Highway 84, 3.2 miles (5.1 km) west of Malvern.	f3.0 (7.77 km²)	1962-74	6- 8-74	b11.37	1,800
07359750	Little Sugarloaf Creek near Bonnerdale, Ark.	Lat 34°21'40", long 93°27'30", in NW½SW¼ sec.27, T.4 S., R.23 W., Montgomery County, at bridge on U.S. Highway 70, 4.7 miles (7.6 km) southwest of Bonnerdale.	2.34 (6.06 km²)	1962-74	6- 7-74	b14.55	3,450
07360150	Pearson Creek tributary near Oalark, Ark.	Lat 34°01'59", long 92°52'05", in SE½NW¼ sec.17, T.8 S., R.17 W., Oallas County, at culvert on State Highway 8, 1.1 miles (1.8 km) east of Oalark. Prior to 1965 published as Casa Massa Creek tributary near Oalark.	.40 (1.04 km²)	1961-74	6- 8-74	6.71	195
07361020	Prairie Creek tributary near Kirby, Ark.	Lat 34°09'10", long 93°37'53", in NW½SE¼ sec.11, T.7 S., R.25 W., Pike County, at culvert on State Highway 27, 6.6 miles (10.6 km) south of Kirby.	.16 (.41 km²)	1963-74	6- 8-74	7.27	303
07361180	South Fork Ozan Creek near Ozan, Ark.	Lat 33°49'15", long 93°42'28", in SE½SW¼ sec.5, T.11 S., R.25 W., Hempstead County, at bridge on State Highway 4, 2.0 miles (3.2 km) south of Ozan.	17.6 (45.6 km²)	1963-74	11-23-73	b24.60	7,200
07361200	Ozan Creek near McCaskill, Ark.	Lat 33°52'55", long 93°35'59", in SE½NE¼ sec.18, T.10 S., R.24 W., Hempstead County, at bridge on State Highway 24, 3.5 miles (5.6 km) southeast of McCaskill.	148 (383 km²)	1940-61, 1962-70+, 1971-74	6- 4-74	15.41	8,950
07361680	Little Caney Creek near Rosston, Ark.	Lat 33°36'19", long 93°17'31", in SW½SE¼ sec.17, T.13 S., R.21 W., Nevada County, at culvert on State Highway 19, 1.0 mile (1.6 km) north of junction of State Highways 4 and 19, and 1.3 miles (2.1 km) northwest of Rosston.	1.48 (3.83 km²)	1961-74	8-31-74	11.97	840
07361780	Bradshaw Creek near Hollywood, Ark.	Lat 34°06'02", long 92°12'24", in NE½SE¼ sec.26, T.7 S., R.21 W., Clark County, at bridge on State Highway 26, 2.6 miles (4.2 km) east of Hollywood. Prior to 1971 published as Old Bradshaw Creek near Hollywood.	3.46 (8.96 km²)	1962-74	6- 8-74	16.86	1,140
07362050	Ross Creek near Camden, Ark.	Lat 33°32'38", long 92°53'18", in SE½NE¼ sec.6, T.14 S., R.17 W., Ouachita County, at bridge on U.S. Highway 79, 4.2 miles (6.8 km) southwest of Camden.	10.4 (26.9 km²)	1961-74	12- 4-73	b11.90	1,330
07362330	Ounn Creek near Hampton, Ark.	Lat 33°32'05", long 92°30'55", in SE½NW¼ sec.2, T.14 S., R.14 W., Calhoun County, at bridge on State Highway 4, 2.8 miles (4.5 km) west of Hampton.	13.5 (35.0 km²)	1962-74	6- 8-74	9.27	2,500
07362450	Cooks Creek near Fordyce, Ark.	Lat 33°50'33", long 92°28'09", in NW½NE¼ sec.19, T.10 S., R.13 W., Oallas County, at bridge on State Highway 8, 3.9 miles (6.3 km) northwest of Fordyce.	4.99 (12.9 km²)	1962-74	12- 3-73	b11.93	2,120
07363050	Holly Creek tributary near Benton, Ark.	Lat 34°32'04", long 92°33'12", in SW½NW¼ sec.19, T.2 S., R.14 W., Saline County, at culvert on State Highway 35, 2.8 miles (4.5 km) southeast of Benton.	1.46 (3.78 km²)	1962-74	11-25-73	6.05	345
07363330	West Fork Big Creek at Sheridan, Ark.	Lat 34°19'13", long 92°23'43", in NW½NE¼ sec.3, T.5 S., R.13 W., Grant County, at bridge on U.S. Highway 167, 0.9 mile (1.4 km) north of junction of U.S. Highways 167 and 270 in Sheridan.	4.86 (12.6 km²)	1960, 1963-74	11-24-73	14.75	950

† Operated as a continuous-record gaging station.

b From floodmark.

f Approximately.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Red River basin--Continued							
07363430	East Fork Oerrieusseau Creek near Pine Bluff, Ark.	Lat 34°17'57", long 92°11'37", in NW¼NW¼ sec.10, T.5 S., R.11 W., Jefferson County, at culvert on U.S. Highway 270, 12 miles (19.3 km) north-west of Pine Bluff.	.64 (1.66 km ²)	1961-74	12-24-73	8.92	190
07363450	Varnell Creek near Rison, Ark.	Lat 33°56'12", long 92°10'31", in NW¼NE¼ sec.18, T.9 S., R.10 W., Cleveland County, at culvert on State Highway 35, 1.8 miles (2.9 km) south-east of Rison. Prior to 1972 published as Saline River tributary near Rison.	.27 (.70 km ²)	1964-74	8-31-74	8.14	173
07364030	Eagle Creek tributary near Hermitage, Ark.	Lat 33°24'48", long 92°12'33", in SE¼NW¼ sec.14, T.15 S., R.11 W., Bradley County, at culvert on State Highway 15, 3.3 miles (5.3 km) south-west of Hermitage.	.36 (.93 km ²)	1963-74	4-21-74	4.62	57
07364070	Bear Creek near Strong, Ark.	Lat 33°04'32", long 92°19'33", in NE¼SE¼ sec.10, T.19 S., R.12 W., Union County, at bridge on State Highway 129, 2.9 miles (4.7 km) south-east of Strong.	f6.0 (15.5 km ²)	1963-74	6- 8-74	15.27	890
07364110	Nevins Creek tributary near Pine Bluff, Ark.	Lat 34°10'08", long 92°05'12", in NW¼SE¼ sec.26, T.6 S., R.10 W., Jefferson County, at culvert on U.S. Highway 79, 6.0 miles (9.7 km) south-west of Pine Bluff. Prior to 1962 published as Bayou Bartholomew tributary near Pine Bluff.	.79 (2.05 km ²)	1961-74	6- 8-74	6.58	232
07364125	Cane Creek at Star City, Ark.	Lat 33°57'18", long 91°50'34", in SE¼SE¼ sec.5, T.9 S., R.7 W., Lincoln County, at bridge on State Highway 81, 0.9 mile (1.4 km) north of junction of State Highways 11 and 81, in Star City.	4.91 (12.7 km ²)	1962-74	6- 8-74	9.03	1,180
07364140	Ables Creek near Tyro, Ark.	Lat 33°49'29", long 91°44'06", in NE¼SE¼ sec.20, T.10 S., R.6 W., Lincoln County, at bridge on State Highway 54, 0.8 mile (1.3 km) northeast of junction with State Highway 83, and 1.1 miles (1.8 km) southwest of Tyro.	33.0 (85.5 km ²)	1970-74	9- 1-74	15.56	930
07364165	Upper Cutoff Creek near Monticello, Ark.	Lat 33°44'20", long 91°44'51", in NW¼SW¼ sec.20, T.11 S., R.6 W., Orew County, at bridge on State Highway 83, 8.0 miles (12.9 km) north of Monticello.	18.8 (48.7 km ²)	1963-74	6- 8-74	11.20	3,700
07364260	Hanks Creek near Hamburg, Ark.	Lat 33°10'12", long 91°49'40", in NW¼SE¼ sec.4, T.18 S., R.7 W., Ashley County, at bridge on State Highway 52, 4.3 miles (6.9 km) southwest of Hamburg.	21.1 (54.6 km ²)	1962-74	4-21-74	11.59	2,300
07364550	Cany Creek tributary near El Oorado, Ark.	Lat 33°11'22", long 92°36'28", in NE¼NW¼ sec.1, T.18 S., R.15 W., Union County, at culvert on U.S. Highway 82, 3.5 miles (5.6 km) southeast of El Oorado.	f.1 (.26 km ²)	1961-74	6- 8-74	b12.40	978
07365900	Three Creeks near Three Creeks, Ark.	Lat 33°04'01", long 92°53'02", in NE¼NW¼ sec.20, T.19 S., R.17 W., Union County, at bridge on State Highway 15, 2.2 miles (3.5 km) south-west of Three Creeks.	50.3 (130 km ²)	1956-71+, 1972-74	6- 8-74	12.13	24,100
07367658	Cypress Creek Canal No. 19 tributary near Dumas, Ark.	Lat 33°51'47", long 91°28'46", in SE¼NW¼ sec.2, T.10 S., R.4 W., Desha County, at culvert on U.S. Highway 65, 1.5 miles (2.4 km) south of Dumas.	f.6 (1.55 km ²)	1961-74	8-31-74	8.18	128
07367665	Wards Bayou tributary at Montrose, Ark.	Lat 33°18'15", long 91°29'37", in SE¼SE¼ sec.15, T.16 S., R.4 W., Ashley County, at culvert on U.S. Highway 165, 0.4 mile (.6 km) north of junction of U.S. Highways 165 and 82 in Montrose.	f1.6 (4.14 km ²)	1961-74	4-21-74	7.87	570
07367740	Camp Bayou near Parkdale, Ark.	Lat 33°06'55", long 91°31'31", in SE¼SW¼ sec.21, T.18 S., R.4 W., Ashley County, at culvert on State Highway 8, 1.3 miles (2.1 km) east of Parkdale.	f1.9 (4.92 km ²)	1963-74	4-21-74	9.41	380

† Operated as a continuous-record gaging station.

b From floodmarks.

f Approximately.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†).

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
St. Francis River basin						
Pemiscot Bayou	St. Francis River	Lat 35°51'30", long 90°02'48", in SW¼ sec.5, T.14 N., R.10 E., Mississippi County, at bridge on State Highway 119, 0.7 mi (1.1 km) north of Dell, Ark.	(a)	-	7- 1-74 9-23-74	29.0 21.7
Pemiscot Bayou	St. Francis River	Lat 35°59'30", long 89°52'26", in NE¼SE¼ sec.23, T.16 N., R.11 E., Mississippi County, at bridge on service road 50 ft (15 m) downstream from Interstate Highway 55, 2.0 mi (3.2 km) north-east of Yarbrow, Ark., and 4.1 mi (6.6 km) downstream from Crooked Lake Bayou.	(a)	1971-73	12- 3-73 2-25-74 5-20-74	86.4 44.9 34.6
White River basin						
Crooked Creek	White River	Lat 36°14'36", long 92°50'12", in SW¼ sec.31, T.19 N., R.17 W., Marion County, at bridge on U.S. Highway 62, 0.7 mi (1.1 km) southeast of Pyatt, Ark.	207 (536 km²)	1953-54, 1957-67b	7-11-74 8-22-74	81.1 41.1
Current River	Black River	Lat 36°17'55", long 90°51'30", in sec.10, T.19 N., R.2 E., Randolph County, at bridge on U.S. Highway 67, 7.9 mi (12.7 km) northeast of Pocahontas, Ark.	2,606 (6,750 km²)	-	9-25-74	2,500
Spring River	Black River	Lat 36°30'10", long 91°31'31", in SE¼SE¼ sec.5, T.21 N., R.5 W., Oregon County, at bridge on county road, 0.6 mi (1.0 km) east of U.S. Highway 63, 0.2 mi (0.3 km), north of Missouri-Arkansas State line, and 1.1 mi (1.8 km) southeast of Thayer, Mo.	(a)	1971-73	10-29-73 4-16-74 8-20-74	30.0 185 57.8
Myatt Creek	Spring River	Lat 36°31'04", long 91°44'18", in SE¼SW¼ sec.33, T.22 N., R.7 W., Howell County, at bridge on State Highway 142, 3.5 mi (5.6 km) east of Lanton, Mo.	(a)	1964-67c 1971-73	12- 3-73	47.2
South Fork Spring River	Spring River	Lat 36°26'23", long 91°49'44", in SE¼NW¼ sec.34, T.21 N., R.8 W., Fulton County, at bridge on county road, 0.2 mi (0.3 km) upstream from Mill Creek, and 4.8 mi (7.7 km) north of Salem, Ark.	136 (352 km²)	1971-73	10-29-73	54.7
South Fork Spring River	Spring River	Lat 36°21'00", long 91°38'00", in NW¼NW¼ sec.33, T.20 N., R.6 W., Fulton County, at bridge on State Highway 289, 0.2 mi (0.3 km) southeast of Saddle, Ark.	(a)	-	7-10-74 8-21-74	127 78.8
Village Creek	White River	Lat 36°05'26", long 90°56'19", in SW¼SW¼ sec.24, T.17 N., R.1 E., Lawrence County, at bridge on county road, 1.8 mi (2.9 km) northeast of Walnut Ridge, Ark.	(a)	1958-63b 1973	10-10-73 11- 1-73 1-15-74 2-13-74 3-11-74 5- 9-74 6-12-74	0 0 73.0 0 87.2 *7.99 52.7
Village Creek	White River	Lat 35°49'10", long 91°05'05", in NW¼SW¼ sec.27, T.14 N., R.1 W., Jackson County, at bridge on county road, 5.1 mi (8.2 km) upstream from Maple Ditch, and 2.4 mi (3.9 km) east of Swifton, Ark.	(a)	1973	10-10-73 11- 1-73 12- 6-73 1-15-74 2-13-74 3-11-74	0 0 1,520 559 0 125
Village Creek	White River	Lat 35°35'34", long 91°14'28", in NE¼NW¼ sec.18, T.11 N., R.2 W., Jackson County, at bridge on State Highway 14, 3.5 mi (5.6 km) downstream from Locust Creek, and 1.0 mi (1.6 km) southeast of Newport, Ark.	277 (717 km²)	1953, 1957-66b 1973	10-10-73 11- 1-73 12- 6-73 1-15-74 3-11-74 4- 4-74	*14.5 *9.71 2,140 866 160 60.3
Cache River	White River	Lat 36°26'01", long 90°21'30", in NW¼NE¼ sec.30, T.21 N., R.7 E., Clay County, at bridge on U.S. Highway 62, 1.7 mi (2.7 km) east of McDougal, Ark., and 3.7 mi (6.0 km) upstream from Little Cache River Ditch.	(a)	1971-73	12- 4-73 2-27-74	296 51.4
Bayou DeView	Cache River	Lat 35°47'36", long 90°50'18", in SW¼SW¼ sec.36, T.14 N., R.2 E., Craighead County, at bridge on State Highway 226, 1.8 mi (2.9 km) northwest of Gibson, Ark.	(a)	-	7- 1-74	*5.28
Arkansas River basin						
Little Sugar Creek	Big Sugar Creek	Lat 36°30'10", long 94°16'30", in SW¼NE¼ sec.34, T.21 N., R.21 W., McDonald County, at bridge on U.S. Highway 71 at Caverna, Mo., and 0.1 mi (0.2 km) downstream from Bear Creek.	118 (306 km²)	1971-73	11- 6-73 12-11-73 3-28-74 8-28-74	65.7 247 180 34.2

* Base flow.

a Not determined.

b Operated as a low-flow partial-record station.

c Operated as a low-flow partial-record station by Missouri.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Arkansas River basin--Continued						
Butler Creek	Elk River	Lat 36°30'44", long 94°28'54", in NW¼NW¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., at county bridge about 500 ft (152 m) west of State Highway 59, 0.9 mi (1.4 km) north of State line along Highway 59, and 2.0 mi (3.2 km) northwest of Sulphur Springs, Ark.	34.9 (90.4 km²)	1971-73	11- 6-73 12-11-73 3-28-74 8-28-74	*14.8 58.5 62.1 *9.95
Illinois River	Arkansas River	Lat 36°06'06", long 94°20'42", in SE¼ sec.36, T.17 N., R.32 W., Washington County, at bridge on State Highway 16, 0.4 mi (0.6 km) downstream from Clear Creek, and 0.7 mi (1.1 km) southwest of Savoy, Ark.	167 (433 km²)	1957-63b	7-10-74 8-26-74	28.3 15.4
Flint Creek	Illinois River	Lat 36°20'45", long 94°35'32", in NE¼SE¼ sec.23, T.18 N., R.34 W., Benton County, at bridge on State Highway 99, upstream from confluence with Little Flint Creek, and 3.0 mi (4.8 km) northwest of Siloam Springs, Ark.	34.0 (88.1 km²)	1971-73	11- 5-73 12- 3-73 3-28-74 8-28-74	50.4 128 52.2 25.4
Sager Creek	Flint Creek	Lat 36°11'50", long 94°35'00", in SE¼NE¼ sec.24, T.20 N., R.25 E., Delaware County, Oklahoma, at bridge on county road, 0.8 mi (1.3 km) west of State line, and 2.6 mi (4.2 km) northwest of Siloam Springs, Ark.	(a)	1971-73	11- 5-73 12- 3-73 3-28-74 8-28-74	19.8 29.3 28.5 12.1
Lee Creek	Arkansas River	Lat 35°38'45", long 94°23'36", in NW¼SW¼ sec.10, T.11 N., R.32 W., Crawford County, at bridge on State Highway 59, at Natural Dam, Ark.	168 (435 km²)	1957-64b 1971-73	11- 5-73 12- 3-73 3-28-74	81.3 305 315
Mountain Fork	Lee Creek	Lat 35°38'59", long 94°23'52", in SE¼NE¼ sec.9, T.11 N., R.32 W., Crawford County, at culvert on county road at Natural Dam, Ark., 1,800 ft (500 m) upstream from mouth.	36.0 (93.2 km²)	1957-63b 1971-73	11- 5-73 12- 3-73 3-28-74	32.1 53.8 61.1
East Fork Horsehead Creek	Horsehead Creek	Lat 35°29'39", long 93°37'14", in SE¼SE¼ sec.26, T.10 N., R.24 W., Johnson County, at bridge on Interstate Highway 40, 4.2 mi (6.8 km) north of Hartman, Ark.	29.8 (77.2 km²)	-	12-10-71 6- 5-74	d+12,200 +16,300
Bayou Meto	Arkansas River	Lat 34°45'45", long 91°55'47", in NW¼ sec.36, T.2 N., R.9 W., Lonoke County, at bridge on U.S. Highway 70, 2.2 mi (3.5 km) southwest of Lonoke, Ark.	197 (510 km²)	-	10-17-73	665
Bayou Two Prairie	Bayou Meto	Lat 34°51'38", long 91°58'45", in SW¼NW¼ sec.28, T.3 N., R.9 W., Lonoke County, at bridge on State Highway 89, 8.4 mi (13.5 km) south of Cabot, Ark.	84.9 (220 km²)	-	7-30-74	*2.27
Bayou Meto e/	Arkansas River	Lat 34°27'15", long 91°36'58", in SE¼ sec.11, T.3 S., R.6 W., at bridge on U.S. Highway 79, 5.5 mi (8.8 km) southwest of Stuttgart, Ark., and 8.0 mi (12.9 km) upstream from Crooked Creek.	f574 (1487 km²)	1935-54† 1968, 1971-73	11-16-73	2,760
Red River basin						
Mountain Fork	Little River	Lat 34°30'12", long 94°25'50", in NE¼NE¼ sec.17, T.3 S., R.32 W., Polk County, at bridge on State Highway 246, 3.1 mi (5.0 km) northwest of Hatfield, Ark.	160 (414 km²)	1962-67b 1971-73	11-16-73	52.0
Days Creek e/	Sulphur River	Lat 33°19'15", long 93°59'53", in NE¼SE¼ sec.33, T.16 S., R.28 W., Miller County, at bridge on State Highway 237, 7.0 mi (11.3 km) south of Texarkana, Ark.	(a)	1973	6- 6-74	164
State Line Creek	Black Bayou	Lat 32°59'40", long 94°00'28", in NE¼NW¼ sec.15, T.23 N., R.16 W., Caddo Parish, at bridge on Louisiana State Highway 1, 2.0 mi (3.2 km) northwest of Rodessa, La.	(a)	1971-73	2- 1-74	189
Crooked Creek	Bayou Dorcheat	Lat 33°01'06", long 93°25'20", in SE¼SE¼ sec.7, T.20 S., R.22 W., Columbia County, at bridge on county road 200 ft (60 m) north of Arkansas-Louisiana State line, and 2.6 mi (4.2 km) east of Welcome, Ark.	(a)	1971-73	4-24-74	1,560
Cypress Creek	Bayou Dorcheat	Lat 33°01'02", long 93°19'19", in NE¼NW¼ sec.5, T.23 N., R.9 W., Webster Parish, at bridge on Louisiana State Highway 159, 200 ft (60 m) south of Arkansas-Louisiana State line, and 5.0 mi (8.0 km) north of Shongaloo, La.	(a)	1971-73	4-24-74	957
Bodcau Creek	Red Chute Bayou	Lat 33°15'36", long 93°33'00", in SE¼ sec.14, T.17 S., R.24 W., Lafayette County, at bridge on State Highway 313, 6.7 mi (10.8 km) southeast of Lewisville, Ark.	(a)	-	6-11-74 9-18-74	6,200 1,000

* Base flow.

† Measurement of peak flow.

‡ Operated as a continuous-record gaging station.

a Not determined.

b Operated as a low-flow partial-record station.

d Not previously published.

e Operated as a stage station by Corps of Engineers.

f At high stages Bayou Meto and Crooked Creek are interconnected and the combined area is 653 mi² (1,690 km²).

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Red River basin--Continued						
Wheeler Creek	Martin Creek	Lat 33°01'47", long 93°38'36", in SW¼NW¼ sec.7, T.20 S., R.24 W., Lafayette County, at bridge on county road, 0.7 mi (1.1 km) north of Arkansas Louisiana State line, and 1.9 mi (3.1 km) east of Arkana, Ark.	(a)	1971-73	2- 1-74 4-24-74	*10.6 79.0
Bear Creek	Martin Creek	Lat 33°01'56", long 93°37'37", in NW¼NW¼ sec.8, T.20 S., R.24 W., Lafayette County, at culvert on county road, 0.8 mi (1.3 km) north of Arkansas-Louisiana State line, and 2.8 mi (4.5 km) east of Arkana, Ark.	(a)	1971-73	4-24-74	32.4
Dooley Creek	Martin Creek	Lat 33°01'35", long 93°34'45", in SW¼NE¼ sec.10, T.20 S., R.24 W., Lafayette County, at bridge on county road, 0.6 mi (1.0 km) north of Arkansas-Louisiana State line, and 5.5 mi (8.8 km) east of Arkana, Ark.	(a)	1971-73	4-24-74	723
Caddo River	Ouachita River	Lat 34°17'12", long 93°25'00", in SE¼ sec.24, T.5 S., R.23 W., Clark County, at bridge on State Highway 84, 3.0 mi (4.8 km) northeast of Amity, Ark.	(a)	1973	6- 4-74 7-16-74	558 82.3
Little Missouri River	Ouachita River	Lat 34°18'36", long 93°53'54", in SW¼ sec.16, T.5 S., R.27 W., Pike County, at bridge on State Highway 84, 3.3 mi (5.3 km) west of Langley, Ark.	66.5 (172 km²)	1958-63b	6- 4-74 7-15-74	63.6 27.7
Moro Creek	Ouachita River	Lat 33°32'36", long 92°19'06", in sec.35, T.13 S., R.12 W., Bradley-Calhoun County line, at bridge on State Highway 4, 4.0 mi (6.4 km) west of Banks, Ark.	374 (969 km²)	1958-63b	7-24-74 9- 6-74	g0.25 2,000
Hurricane Creek	Saline River	Lat 34°30'30", long 92°24'54", in SW¼ sec.28, T.2 S., R.13 W., Saline County, at crossing on county road, 200 ft (61 m) downstream from Brushy Creek, 1.5 mi (2.4 km) southwest of Sardis, Ark.	(a)	-	8- 1-74 9-12-74	8.85 13.7
Bayou Bartholomew	Ouachita River	Lat 34°06'24", long 91°54'06", in NW¼ sec.22, T.7 S., R.8 W., Jefferson County, at bridge on county road, 2.2 mi (3.5 km) south of Ladd, Ark.	(a)	1968	7-30-74 9-11-74	61.5 27.7
Bayou DeLoutre	Ouachita River	Lat 33°05'55", long 92°35'32", in SE¼NW¼ sec.6, T.19 S., R.14 W., Union County, at bridge on county road, 0.8 mi (1.3 km) below Highbank Creek, and 8.5 mi (13.7 km) southeast of Eldorado, Ark.	78.4 (203 km²)	1959-64b 1971-73	4- 3-74 6-10-74	55.3 717
Little Corney Bayou	Corney Creek	Lat 33°00'42", long 92°58'24", in NW¼SE¼ sec.3, T.23 N., R.6 W., Claiborne Parish, at bridge on State Highway 161, 0.4 mi (0.6 km) south of Arkansas-Louisiana State line, and 3.9 mi (6.3 km) northeast of Gordon, La.	(a)	1971-73	4- 3-74 4-24-74	20.5 349
Little Cornie Bayou	Cornie Bayou	Lat 33°01'15", long 92°42'00", in SW¼SW¼ sec.31, T.19 S., R.15 W., Union County, at bridge on county road, 0.5 mi (0.8 km) north of Arkansas-Louisiana State line, and 1.5 mi (2.4 km) northeast of Junction City, Ark.	(a)	1971-73	4- 3-74	81.4
Big Bayou	Boeuf River	Lat 33°23'20", long 91°25'30", in SE¼ sec.17, T.15 S., R.3 W., Chicot County, at bridge on State Highway 144, 2.5 mi (4.0 km) southeast of Jerome, Ark.	(a)	-	7-23-74 9- 4-74	55.5 1,720

* Base flow.

a Not determined.

b Operated as a low-flow partial-record station.

g Estimated.

	Page		Page
Ables Creek near Tyro.....	124	Cabot, Bayou Two Prairie near.....	126
Accuracy of data.....	9	Cache River at Egypt.....	55
Acre-foot, definition of.....	2	at Patterson.....	56
Amagon, Threemile Creek near.....	120	near McDougal.....	125
Amity, Caddo River near.....	127	Caddo River at DeGray Regulatino Dam, near Arkadelphia...	102
Antoine, Antoine River at.....	107	Caddo River near Amity.....	127
Arkadelphia, Caddo River at DeGray Regulating Oam near..	102	Cadron Creek near Guy.....	77
DeGray Lake near.....	101	Calico Rock, White River at.....	40
Ouachita River at.....	103	Camden, Ouachita River at.....	109
Arkana, Bear Creek (tributary to Martin Creek) near.....	127	Ross Creek near.....	123
Oooley Creek near.....	127	Camp Bayou near Parkdale.....	124
Wheeler Creek near.....	127	Cane Creek at Star City.....	124
Arkansas City, Mississippi River near.....	84	Caney Creek (tributary to Bois d'Arc) near Hope.....	122
Arkansas River at Oam No. 13, near Van Buren.....	66	Cany Creek tributary near El Oorado.....	124
Arkansas River at Dardanelle.....	71	Cauthron, Poteau River at.....	63
at Murray Dam, at Little Rock.....	82	Cave Springs, Osage Creek at.....	121
Arkansas River basin, crest-stage stations in.....	127	Caverna, Mo., Little Sugar Creek at.....	125
gaging-station records in.....	60-83	Cedarville, Webber Creek tributary near.....	121
measurements at miscellaneous sites in.....	125	Cfs-day, definition of.....	2
Ashdwon, Millwood Lake near.....	92	Charley Creek near Omaha.....	118
Little River at Millwood Oam near.....	93	Chickalah, Jake Creek near.....	121
Aubrey, Spring Creek near.....	120	Choctaw, Choctaw Creek tributary near.....	120
Augusta, Cypress Creek tributary near.....	119	Clarendon, White River at.....	57
		Clarksville, Spadra Creek at.....	121
Ballard Creek at Summers.....	121	Clinton, South Fork Little Red River at.....	51
Band Mill Creek near Brockwell.....	119	Collection and computation of data.....	5
Banks, Moro Creek near.....	127	Colt, L'Anguille River near.....	26
Barlow Branch tributary near McNeil.....	122	Contents, definition of.....	3
Barnes Branch near Mount Ida.....	123	Control, definition of.....	3
Baron Fork at Dutch Mills.....	62	Cooks Creek near Fordyce.....	123
Base flow, definition of.....	2	Cooperation, record of.....	2
Bayou Bartholomew near Ladd.....	127	Cornie Bayou near Three Creeks.....	117
near McGehee.....	116	Corning, Black River near.....	42
Bayou de Loutre near El Dorado.....	127	Cossatot River near DeQueen.....	89
Bayou DeView at Morton.....	56	near Vandervoort.....	88
near Gibson.....	125	Cove Creek (tributary to Lee Creek) near Lee Creek.....	121
Bayou Meto at Highway 70 near Lonoke.....	126	Crooked Bayou tributary at Hughes.....	118
Bayou Meto near Lonoke.....	83	Crooked Creek at Pyatt.....	125
near Stuttgart.....	126	near Welcome.....	126
Bayou Two Prairie near Cabot.....	126	Crooked Creek tributary near Dogpatch.....	118
Bear Creek (tributary to Bayou Lapile) near Strong.....	124	Cubic feet per second per square mile, definition of....	3
Bear Creek (tributary to Martin Creek) near Arkana.....	127	Cubic foot per second, definition of.....	3
Beaver Lake near Eureka Springs.....	32	Current River near Pocahontas.....	125
Beebe, Cypress Bayou near.....	54	Cypress Bayou near Beebe.....	54
Benton, Holly Creek tributary near.....	123	Cypress Branch near Jacksonville.....	122
Saline River (tributary to Ouachita River) at.....	112	Cypress Creek Canal 19 tributary near Oumas.....	124
Berryville, Kings River near.....	34	Cypress Creek near Shongaloo, La.....	126
Freeman Branch at.....	118	Cypress Creek tributary near Augusta.....	119
Big Bayou near Gerome.....	127		
Big Creek (tributary to White River) at Goodwin.....	120	Oalark, Pearson Creek tributary near.....	123
Big Creek at Poplar Grove.....	59	Oamascus, Pine Mountain Creek tributary near.....	121
Big Creek (tributary to Cache River) near Boydsville.....	120	Danville, Petit Jean River at.....	76
Big Creek tributary near Boydsville.....	120	Oardanelle, Arkansas River at.....	71
Big Fork, Big Fork tributary at.....	123	Dardanelle Lake at Dardanelle.....	70
Big Piney Creek near Oover.....	69	Oata, accuracy of.....	9
Birdeye, Pope Creek tributary at.....	118	Oata, explanation of.....	5
Black River at Black Rock.....	45	other available.....	11
at Pocahontas.....	119	Oays Creek near Texarkana.....	126
near Corning.....	42	Definition of terms and abbreviations.....	2
Blue Mountain Lake near Waveland.....	73	DeGray Lake near Arkadelphia.....	101
Boat Gunnale Slash near Holly Grove.....	120	Dell, Pemiscot Bayou at.....	125
Bodcau Creek at Stamps.....	122	DeQueen, Cossatot River near.....	89
near Lewisville.....	126	Pepper Creek near.....	122
Boles, Tan-a-hill Creek near.....	122	Rolling Fork near.....	86
Bonnerdale, Little Sugarloaf Creek near.....	123	Oewitt, Little LaGrue Bayou tributary near.....	120
Booneville, Petit Jean River near.....	72	Oierks, Rock Creek near.....	122
Boughton, Little Missouri River near.....	108	Saline River (tributary to Little River) near.....	90
Boxley, Smith Creek near.....	118	Oischarge, definition of.....	3
Boydsville, Big Creek near.....	120	Oitch No. 42 at Hickman.....	118
Big Creek tributary near.....	120	Oitch No. 45 near Lepanto.....	118
Bradshaw Creek near Hollywood.....	123	Oodd Creek tributary near Mountain Home.....	119
Brockwell, Band Mill Creek near.....	119	Oog Branch at St. Paul.....	118
Brogan Creek near Rover.....	122	Oogpatch, Crooked Creek tributary near.....	118
Brush Creek near Mammoth Springs.....	119	Oooley Creek near Arkana.....	127
Brush Creek tributary near Tontitown.....	121	Oover, McCoy Creek near.....	121
Buffalo River near Rush.....	119	Big Piney Creek near.....	69
near St. Joe.....	37	Downstream order and station number.....	4
Bull Shoals Lake near Flippin.....	35	Drainage area, definition of.....	3
Butler Creek near Sulphur Springs.....	126	Orasco, Wolf Bayou near.....	119
Butler Creek tributary near Gravette.....	121	Ory Branch near Vendor.....	119
Butlerville, Pigeon Roost Creek at.....	120	Ory Branch tributary near Sidney.....	119

	Page		Page
Dumas, Cypress Creek Canal 19 tributary near.....	124	Hot Springs, Lake Ouachita near.....	96
Ounn Creek near Hampton.....	123	Ouachita River at Blakely Mountain Dam, near.....	97
Outch Creek at Wai Creek.....	75	Hubble Creek near Pocahontas.....	119
Outch Mills, Baron Fork at.....	62	Hughes Creek near Mountain View.....	119
		Hughes, Crooked Bayou tributary at.....	118
Eagle Creek tributary near Hermitage.....	124	Hurricane Creek near Sardis.....	127
East Fork Oerrieusseau Creek near Pine Bluff.....	124	(tributary to Saline River) near Sheridan.....	114
East Fork Horsehead Creek near Hartman.....	126	Hydrologic bench-mark station, definition of.....	4
East Fork Kelly Bayou tributary at Kiblah.....	122	Hydrologic conditions.....	11
East Fork Point Remove Creek tributary near			
Saint Vincent.....	121	Ida, Peter Creek tributary near.....	120
East Sugarloaf Creek tributary near Lead Hill.....	118	Illinois River at Savoy.....	126
Egypt, Cache River at.....	55	Imboden, Spring River at.....	43
Willow Ditch near.....	120	Index, Red River at.....	85
El Oorado, Bayou de Loutre near.....	127	International Hydrologic Decade River Stations,	
Cany Creek tributary near.....	124	definition of.....	4
Eleven Point River near Ravenden Springs.....	44	Introduction.....	1
Elm Springs, Osage Creek near.....	60		
Ethel, Tarleton Creek tributary at.....	120	Jacksonville, Cypress Branch near.....	122
Eureka Springs, Beaver Lake near.....	32	Jake Creek near Chickalah.....	121
White River at Beaver Dam near.....	33	James Fork near Hackett.....	64
Evansville, Mountain Fork near.....	121	near Midland.....	121
Evening Shade, Piney Fork at.....	47	Jonesboro, Murray Creek near.....	118
Strawberry River near.....	46	Jones Mill, Lake Catherine at.....	99
		Junction City, Little Cornie Bayou near.....	127
Fayetteville, White River near.....	31		
Ferndale, Little Maumelle River at.....	122	Key Branch near Searcy.....	120
Fifty Six, North Sylamore Creek near.....	41	Kiblah, East Fork Kelly Bayou tributary at.....	122
Flint Creek at Springtown.....	61	Kings River near Berryville.....	34
near Siloam Springs.....	126	Kingston, Maxwell Creek at.....	118
Flippin, Bull Shoals Lake near.....	35	Kirby, Prairie Creek tributary near.....	123
White River near.....	36		
Fordyce, Cooks Creek near.....	123	Ladd, Bayou Bartholomew near.....	127
Moro Creek near.....	111	Lake Catherine at Jones Mill.....	99
Foreman, West Flat Creek near.....	122	Lake City, St. Francis River at.....	18
Fouke, Mill Creek tributary near.....	122	Lake Greeson near Murfreesboro.....	104
Fourche LaFave River near Gravely.....	78	Lake Hamilton near Hot Springs.....	98
near Nimrod.....	80	Lake Ouachita near Hot Springs.....	96
Fourche LaFave River tributary near Perryville.....	122	Lakes:	
Fourche River above Pocahontas.....	119	Beaver Lake near Eureka Springs.....	32
Fourche River tributary at Middlebrook.....	119	Blue Mountain Lake near Waveland.....	73
Freeman Branch at Berryville.....	118	Bull Shoals Lake near Flippin.....	35
Frog Bayou at Rudy.....	121	Catherine, Lake, at Jones Mill.....	99
Fulton, Red River at.....	94	Oardanelle, Lake, at Oardanelle.....	70
		OeGray, Lake, near Arkadelphia.....	101
Gage height, definition of.....	3	Greers Ferry Lake near Heber Springs.....	52
Gaging station, definition of.....	3	Greeson, Lake, near Murfreesboro.....	104
Gerome, Big Bayou near.....	127	Hamilton, Lake, near Hot Springs.....	98
Gibbs Creek at Sulphur Rock.....	119	Millwood Lake near Ashdown.....	92
Gibson, Bayou DeView near.....	125	Nimrod Lake near Nimrod.....	79
Glazypeau Creek at Mountain Valley.....	123	Norfolk Lake near Norfolk.....	38
Goodwin, Big Creek at.....	120	Ouachita, Lake, near Hot Springs.....	96
Gordon, La., Little Cornie Bayou near.....	127	Langley, Little Missouri River near.....	127
Gravely, Fourche LaFave River near.....	78	L'Anguille River at Palestine.....	27
Gravette, Butler Creek tributary near.....	31	near Colt.....	26
Greenland, West Fork White River at.....	120	Lanton, Mo., Myatt Creek near.....	125
West Fork White River tributary near.....	118	Lead Hill, East Sugarloaf Creek tributary near.....	118
Greers Ferry Lake near Heber Springs.....	52	Lee Creek at Natural Dam.....	126
Gum Springs Creek near Higginson.....	120	Cove Creek near.....	121
Guy, Cadron Creek near.....	77	near Van Buren.....	65
		Lepanto, Ditch No. 45 near.....	118
Hackett, James Fork near.....	64	Leslie, Tick Creek near.....	120
Hagarville, Minnow Creek tributary near.....	121	Lewis Creek tributary near Mena.....	123
Hamburg, Hanks Creek near.....	124	Lewisville, Bodcau Creek near.....	126
Hampton, Ounn Creek near.....	123	Little Caney Creek near Rosston.....	123
Hartman, East Fork Horsehead Creek near.....	126	Little Cornie Bayou near Junction City.....	127
Hatfield, Mountain Fork (tributary to Little River) near	126	Little Cornie Bayou near Gordon, La.....	127
Twomile Creek near.....	122	Little LaGrue Bayou tributary near DeWitt.....	120
Heber Springs, Greers Ferry Lake near.....	52	Little Maumelle River at Ferndale.....	122
Little Red River near.....	53	Little Missouri River at Narrows Dam near Murfreesboro...	105
Helena, Mississippi River at.....	28	Little Missouri River near Boughton.....	108
Hermitage, Eagle Creek tributary near.....	124	near Langley.....	127
Hickman, Oich No. 42 at.....	118	near Murfreesboro.....	106
Higginson, Gum Springs Creek near.....	120	Little Red River near Heber Springs.....	53
Hindsville, War Eagle Creek near.....	118	South Fork, at Clinton.....	91
Hollis, South Fourche LaFave River near.....	81	Little River at Millwood Dam, near Ashdown.....	53
Holly Creek tributary near Benton.....	123	Little River near Horatio.....	87
Holly Grove, Boat Gunale Slash near.....	120	Little Rock, Arkansas River at Murray Dam at.....	82
Hollywood, Bradshaw Creek near.....	123	Little Sugar Creek at Caverna, Mo.....	125
Hope, Caney Creek near.....	122	Little Sugarloaf Creek near Bonnerdale.....	123
Horatio, Little River near.....	87	Lockesburg, Saline River (tributary to Little	
Hot Springs, Lake Hamilton near.....	98	River) near.....	91

	Page		Page
Lockesburg, Mill Slough tributary near.....	122	Palestine, L'Anguille River at.....	27
Lonoke, Bayou Meto at Highway 70 near.....	126	Parkdale, Camp Bayou near.....	124
Bayou Meto near.....	83	Parkin, St. Francis River at.....	23
White Oak Branch near.....	122	Partial-record station, definition of.....	3
Malvern, Ouachita River near.....	100	Patterson, Cache River at.....	56
Ouachita River tributary near.....	123	Pearson Creek tributary near Oalark.....	123
Mammoth Springs, Brush Creek near.....	119	Pemiscot Bayou at Dell.....	125
Marshall, Trace Creek tributary near.....	120	near Yarbrow.....	125
Map showing location of continuous record gaging stations.....	12	Pepper Creek near DeQueen.....	122
Maxwell Creek at Kingston.....	118	Perryville, Fourche LaFave River tributary near.....	122
McCaskill, Ozan Creek near.....	123	Peter Creek tributary near Ida.....	120
McCoy Creek near Dover.....	121	Petit Jean River at Danville.....	76
McDougal, Cache River near.....	125	near Booneville.....	72
McGehee, Bayou Bartholomew near.....	116	near Waveland.....	74
McNeil, Barlow Branch tributary near.....	122	Pigeon Roost Creek at Butlerville.....	120
Memphis, Tenn., Mississippi River at.....	14	Pine Bluff, East Fork Oerrieusseaux Creek near.....	124
Mena, Lewis Creek tributary near.....	123	Nevins Creek tributary near.....	124
Middlebrook, Fourche River tributary at.....	119	Pine Mountain Creek tributary near Damascus.....	121
Middle Fork Little Red River at Shirley.....	50	Piney Fork at Evening Shade.....	47
Midland, James Fork near.....	121	Pocahontas, Black River at.....	119
Mikes Creek tributary near Ozone.....	121	Current River near.....	125
Mill Branch near Tomberlin.....	122	Fourche River above.....	119
Mill Creek tributary near Fouke.....	122	Hubble Creek near.....	119
Miller Creek near Salem.....	119	Pope Creek tributary at Birdseye.....	118
Mill Slough tributary near Lockesburg.....	122	Poplar Grove, Big Creek at.....	59
Millwood Lake near Ashdown.....	92	Poteau River at Cauthron.....	63
Minnow Creek tributary near Hagarville.....	121	Poughkeepsie, Strawberry River near.....	48
Mississippi River at Helena.....	28	Prairie Creek tributary near Kirby.....	123
at Memphis, Tenn.....	14	Publications.....	10
near Arkansas City.....	84	Pyatt, Crooked Creek at.....	125
Monticello, Upper Cutoff Creek near.....	124	Ravenden Springs, Eleven Point River near.....	44
Montrose, Wards Bayou tributary at.....	124	Red River at Fulton.....	94
Moro Creek near Banks.....	127	at Index.....	85
near Fordyce.....	111	Red River basin, crest-stage stations in.....	122
Morton, Bayou OeView at.....	56	gaging-station records in.....	85-117
Mountain Fork (tributary to Lee Creek) at Natural Dam.....	126	measurements at miscellaneous sites in.....	126
near Evansville.....	121	Reeds Creek near Strawberry.....	119
Mountain Fork (tributary to Little River) near Hatfield.....	126	Right Hand Chute of Little River at Rivervale.....	20
Mountain Home, Odd Creek tributary near.....	119	Rison, Varnell Creek near.....	124
Mountain Valley, Glazypeau Creek at.....	123	Riverfront, St. Francis Bay at.....	25
Mountain View, Hughes Creek near.....	119	Rodessa, La., State line Creek near.....	126
Mount Ida, Barnes Branch near.....	123	Rock Creek near Olerks.....	122
Ouachita River near.....	95	Rolling Fork near OeQueen.....	86
South Fork Ouachita River at.....	123	Ross Creek near Camden.....	123
Mulberry, Mulberry River near.....	67	Rosston, Little Caney Creek near.....	123
Murfreesboro, Lake Greeson near.....	104	Rover, Brogan Creek near.....	122
Little Missouri River at Narrows Dam, near.....	105	Rudy, Frog Bayou at.....	121
Little Missouri River near.....	106	Runoff in inches, definition of.....	4
Murray Creek near Jonesboro.....	118	Rush, Buffalo River near.....	119
Myatt Creek near Lanton, Mo.....	125	Rye, Saline River (tributary to Ouachita River) near.....	115
Natural Dam, Lee Creek at.....	126	Saddle, South Fork Spring River at.....	125
Mountain Fork (tributary to Lee Creek) at.....	126	St. Francis Bay at Riverfront.....	25
Nevins Creek tributary near Pine Bluff.....	124	St. Francis River at Lake City.....	18
Newport, White River at.....	49	at latitude of Wittsburg.....	25
Village Creek near.....	125	at Parkin.....	23
Nimrod, Fourche LaFave River near.....	80	at St. Francis.....	16
Nimrod Lake near.....	79	St. Francis River basin, crest-stage stations.....	118
Norfolk, Norfolk Lake near.....	38	gaging-station records in.....	16-127
North Fork River, at Norfolk Dam near.....	39	measurements at miscellaneous sites in.....	125
North Fork White Oak Creek tributary near Watalula.....	121	St. Francis, St. Francis River at.....	16
North Sylamore Creek near Fifty Six.....	41	St. Joe, Buffalo River near.....	37
O'Kean, Village Creek near.....	119	St. Paul, Oog Branch at.....	118
Omaha, Charley Creek near.....	118	Saint Vincent, East Fork Point Remove Creek tributary near.....	121
Osage Creek at Cave Springs.....	121	Sager Creek near Siloam Springs.....	126
near Elm Springs.....	60	Salem, Miller Creek near.....	119
Ouachita River at Arkadelphia.....	103	South Fork Spring River near.....	125
at Blakely Mountain Dam, near Hot Springs.....	97	Saline River (tributary to Little River) near Dierks.....	90
at Camden.....	109	near Lockesburg.....	91
near Malvern.....	100	Saline River (tributary to Ouachita River) at Benton.....	112
near Mount Ida.....	95	near Rye.....	113
South Fork, at Mount Ida.....	123	near Sheridan.....	115
Ouachita River tributary near Malvern.....	123	Sardis, Hurricane Creek near.....	127
Ozan Creek near McCaskill.....	123	Savoy, Illinois River at.....	126
Ozan, South Fork Ozan Creek near.....	123	Searcy, Key Branch near.....	120
Ozark Lake at Ozark.....	68	Selected references.....	11
Ozone, Mikes Creek tributary near.....	121	Sheridan, Hurricane Creek (tributary to Saline River) near.....	114
Pack Saddle Creek tributary near Waldron.....	121	Saline River near.....	113
		West Fork Big Creek at.....	123

	Page		Page
Shirley, Little Red River, Middle Fork at.....	50	Upper Cutoff Creek near Monticello.....	124
Shongaloo, La., Cypress Creek near.....	126	Van Buren, Arkansas River at Dam No. 13, near.....	66
Sidney, Dry Branch tributary near.....	119	Lee Creek near.....	65
Siloam Springs, Flint Creek near.....	126	Vandervoort, Cossatot River near.....	88
Sager Creek near.....	126	Varnell Creek near Rison.....	124
Smackover Creek near Smackover.....	110	Vendor, Dry Branch near.....	119
Smith Creek near Boxley.....	118	Village Creek near Newport.....	125
South Fork Little Red River at Clinton.....	51	near O'Kean.....	119
South Fork Ouachita River at Mount Ida.....	123	near Swifton.....	125
South Fork Ozan Creek near Ozan.....	123	near Walnut Ridge.....	125
South Fork Spring River at Saddle.....	125	Walcott, Sugar Creek tributary near.....	120
near Salem.....	125	Waldron, Pack Saddle Creek tributary near.....	121
South Fourche LaFave River near Hollis.....	81	Walnut Ridge, Village Creek near.....	125
Spadra Creek at Clarksville.....	121	Waltreak, Dutch Creek at.....	75
Special networks and programs.....	4	Wards Bayou tributary at Montrose.....	124
Spring Creek (tributary to Big Creek) near Aubrey.....	120	War Eagle Creek near Hindsville.....	118
Spring River at Imboden.....	43	near Witter.....	118
near Thayer, Mo.....	125	Watalula, North Fork White Oak Creek tributary near.....	121
Springtown, Flint Creek at.....	61	Waveland, Blue Mountain Lake near.....	73
Spring Valley, Whitener Branch tributary near.....	118	Petit Jean River near.....	74
Stage-discharge relation, definition of.....	4	Webber Creek tributary near Cedarville.....	121
Stamps, Bodcau Creek at.....	122	Welcome, Crooked Creek near.....	126
Star City, Cane Creek at.....	124	West Flat Creek near Foreman.....	122
State Line Creek near Rodessa, La.....	126	West Fork Big Creek at Sheridan.....	123
Station numbers.....	4	West Fork White River at Greenland.....	30
Strawberry River near Evening Shade.....	46	West Fork White River tributary near Greenland.....	118
near Poughkeepsie.....	48	Wheeler Creek near Arkana.....	127
Strawberry, Reeds Creek near.....	119	Whitener Branch tributary near Spring Valley.....	118
Strong, Bear Creek near.....	124	White Oak Branch near Lonoke.....	122
Stuttgart, Bayou Meto near.....	126	White River at Beaver Dam, near Eureka Springs.....	33
Sugar Creek tributary near Walcott.....	120	White River at Calico Rock.....	40
Sulphur Rock, Gibbs Creek at.....	119	at Clarendon.....	57
Sulphur Springs, Butler Creek near.....	126	at Newport.....	49
Summer, Ballard Creek at.....	121	near Fayetteville.....	31
Swifton, Village Creek near.....	125	near Flippin.....	36
Tan-a-hill Creek near Boles.....	122	West Fork, at Greenland.....	30
Tarleton Creek tributary at Ethel.....	120	West Fork, tributary near Greenland.....	118
Terms and abbreviations, definitions of.....	2	White River basin, crest-stage stations in.....	118
Texarkana, Oays Creek near.....	126	gaging-station records in.....	30-59
Thayer, Mo., Spring River near.....	125	measurements at miscellaneous sites in.....	125
Three Creeks near Three Creeks.....	124	Willow Ditch near Egypt.....	120
Three Creeks, Cornie Bayou near.....	117	Witter, War Eagle Creek near.....	118
Threemile Creek near Amagon.....	120	Wittsburg, latitude of, St. Francis River at.....	25
Tick Creek near Leslie.....	120	Wolf Bayou near Drasco.....	119
Tomberlin, Mile Branch near.....	122	WRO, definition of.....	4
Tontitown, Brush Creek tributary near.....	121	WSP, definition of.....	4
Trace Creek tributary near Marshall.....	120	Yarbro, Pemiscot Bayou near.....	125
Twomile Creek near Hatfield.....	122		
Tyro, Ables Creek near.....	124		
Tyronza River near Tyronza.....	21		

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
Room 2301, Federal Office Building
700 West Capitol Avenue
Little Rock, Arkansas 72201

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF THE INTERIOR
INT 413

